

CITY OF AVONDALE

MAYOR
KENNETH WEISE

VICE MAYOR
BRYAN KILGORE

COUNCIL MEMBERS

TINA CONDE
PAT DENNIS
VERONICA MALONE
MIKE PINEDA
LORENZO SIERRA

CITY MANAGER

CHARLES A MONTOYA

CITY CLERK

CARMEN MARTINEZ

ENGINEER

KIMLEY-HORN
KIMBERLY CARROLL, P.E., PTOE
7740 N. 16TH ST., SUITE 300
PHOENIX, ARIZONA 85020
PHONE: (602) 944-5500
FAX: (602) 944-7423

OWNER

CITY OF AVONDALE
CHRIS HAMILTON, P.E. (PROJECT MANAGER)
11465 W CIVIC CENTER DRIVE
AVONDALE, ARIZONA 85323
PHONE: (623) 333-4000
FAX: (623) 333-0420

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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

SHEET TYPE: COVER SHEET
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

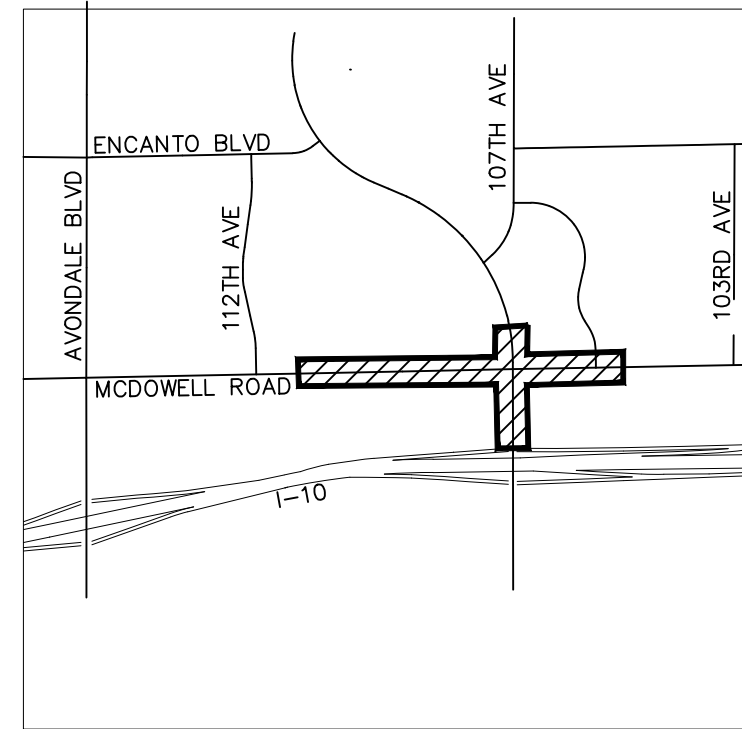
PRELIMINARY
60%
NOT FOR CONSTRUCTION
ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: - - -
SHEET NUMBER: 1 OF 84
PROJECT NUMBER: ST1224



Avondale

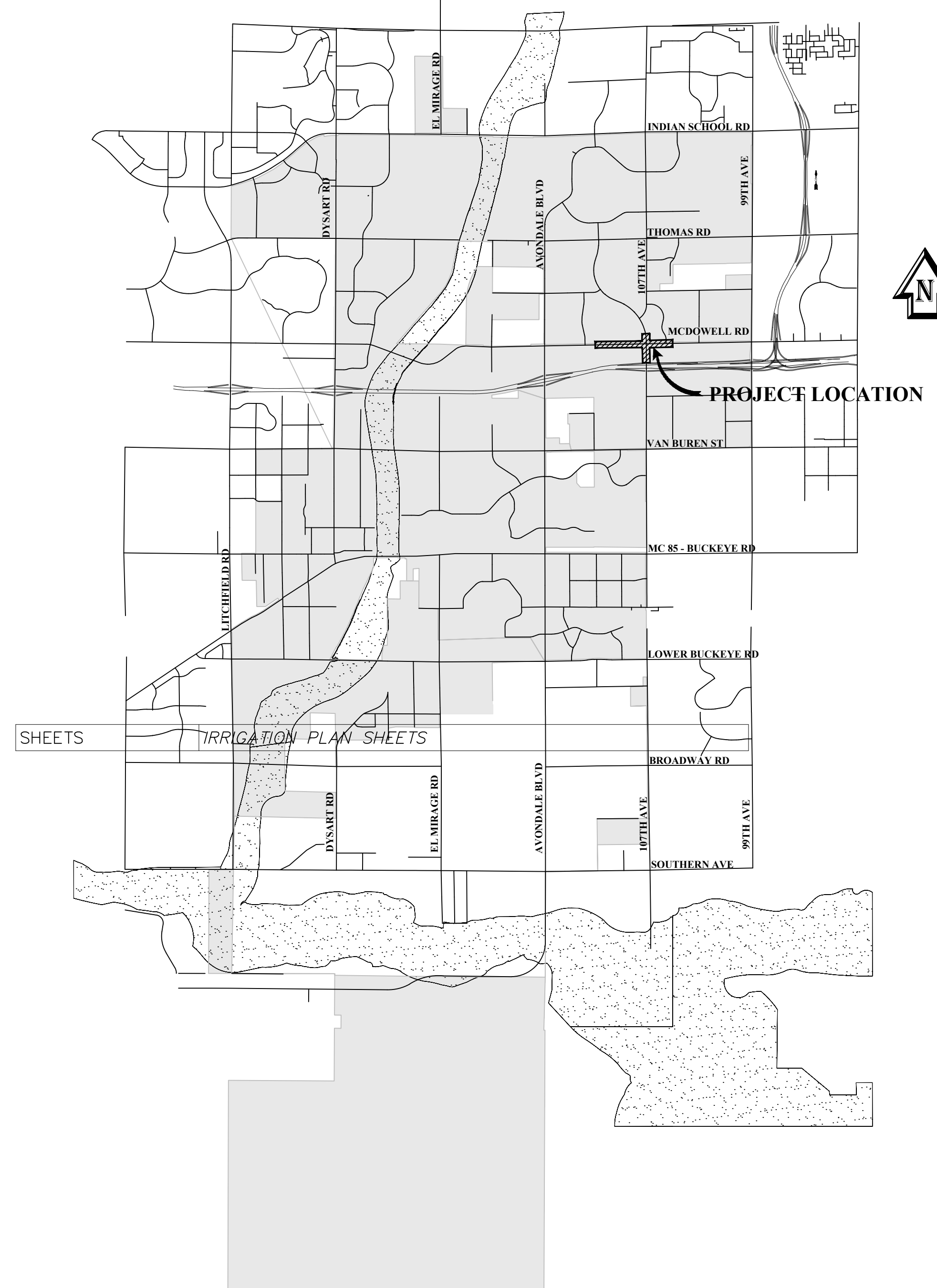
Aspiring. Achieving. Accelerating.

107th AVENUE & MCDOWELL ROAD INTERSECTION CITY PROJECT NO. ST1224 SECTIONS 5 & 6, TOWNSHIP 1 NORTH & RANGE 1 EAST (CIP ST1224)



VICINITY MAP

AREA MAP



Utility Notification

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES, WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS SHALL BE RESOLVED AS SPECIFIED IN THE SPECIAL NOTES AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORESEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

	CONTACTED	REPLIED
SRP IRRIGATION PHONE NUMBER: (602) 236-5799	SUSANA ORTEGA COMPANY REPRESENTATIVE X DATE	DATE
SRP ELECTRIC (TRANSMISSION) PHONE NUMBER: (602) 371-7546	KEITH PELLIN COMPANY REPRESENTATIVE DATE	DATE
SRP ELECTRIC (DISTRIBUTION) PHONE NUMBER: (602) 516-2385	BRUCE SOUDER COMPANY REPRESENTATIVE DATE	DATE
SRP COMMUNICATION PHONE NUMBER: (602) 516-2385	MITCH BRADFORD COMPANY REPRESENTATIVE DATE	DATE
CENTURY LINK PHONE NUMBER: (480) 254-0127	ANDRE HATCHER COMPANY REPRESENTATIVE DATE	DATE
COX COMMUNICATIONS PHONE NUMBER: (623) 328-4086	RICK BURTON COMPANY REPRESENTATIVE DATE	DATE
SOUTHWEST GAS PHONE NUMBER: (602) 484-5342	VALERIE GALLARDO-WELLER COMPANY REPRESENTATIVE DATE	DATE

SHEET INDEX

SHEET NO.	DWG TITLE	SHEET TITLE
1	CV01	COVER SHEET
2	GN02	QUANTITY AND LEGEND SHEET
3 - 5	TX01 - TX03	TYPICAL SECTIONS
6	GC01	GEOMETRIC CONTROL SHEET
7	KM01	KEY MAP
8 - 20	PP01 - PP13	PAVING PLAN & PROFILE
21	SK01	INTERSECTION STAKING DIAGRAM
22	DW01	DRIVEWAY DETAIL SHEET
23	DT01	ROADWAY DETAILS
24	DR01	DRAINAGE DETAILS
25 - 29	RB01 - RB05	RETENTION BASIN GRADING
30 - 36	SM01 - SM07	SIGNING AND STRIPING PLAN
37 - 41	TS01 - TS05	TRAFFIC SIGNALS
42 - 47	SL01 - SL06	STREET LIGHTING
48 - 54	WTR01 - WTR07	WATER LINE PLAN & PROFILE
55	PI01	PRIVATE IRRIGATION
56	LSCV_01	LANDSCAPE COVER
57 - 69	LS01 - LS13	LANDSCAPE PLAN
70	LSDT_01	LANDSCAPE DETAILS
71 - 83	IR01 - IR13	IRRIGATION PLAN
84	IRDT_01	IRRIGATION DETAILS

APPROVALS

CITY ENGINEERING DEPARTMENT _____ DATE _____

THE CITY APPROVES THESE PLANS FOR CONCEPT ONLY AND ACCEPTS NO LIABILITY FOR ERRORS OR OMISSIONS

(water & sewer plans)
MARICOPA COUNTY ENVIRONMENTAL SERVICES _____ DATE _____
1101 N CENTRAL #150
PHOENIX, AZ 85334
TOM CHISOLM (602) 506-6671

(water plans)
CITY OF AVONDALE FIRE DEPARTMENT _____ DATE _____
REQUIRED FIRE FLOW _____ GPM

"AS-BUILT CERTIFICATION"

I HEREBY CERTIFY THAT THE "AS-BUILT" INFORMATION SHOWN HEREON WAS OBTAINED UNDER MY DIRECT SUPERVISION AND IS CORRECT AND COMPLETE TO THE BEST OF MY KNOWLEDGE AND BELIEF

REGISTERED LAND SURVEYOR/ENGINEER _____

REGISTRATION NUMBER _____ DATE _____
COMPANY NAME:
ADDRESS:
PHONE NUMBER:

Plotted By: Rodriguez, David - Sheet Set: McDowell Road - Layout: QN02 - October 10, 2018 04:12:39pm - K:\PHX - Roadway\191323121 - 107th Avenue and McDowell Road\Cadd\12 - Sheets\Roadway\191323121-002.dwg

INTENTIONALLY LEFT BLANK FOR QUANTITIES

ENGINEER'S NOTES

1. THE QUANTITIES AND SITE CONDITIONS DEPICTED IN THESE PLANS ARE FOR INFORMATIONAL PURPOSES ONLY AND ARE SUBJECT TO ERRORS AND OMISSIONS. CONTRACTORS SHALL SATISFY THEMSELVES AS TO ACTUAL QUANTITIES AND SITE CONDITIONS PRIOR TO BIDDING THE WORK FOR THE CONSTRUCTION COVERED BY THESE PLANS.
2. A REASONABLE EFFORT HAS BEEN MADE TO SHOW THE LOCATIONS OF EXISTING UNDERGROUND FACILITIES AND UTILITIES IN THE CONSTRUCTION AREA. THE CONTRACTOR IS RESPONSIBLE FOR ANY DAMAGE TO UTILITIES AND/OR FACILITIES CAUSED DURING THEIR CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL CALL 48-HOURS IN ADVANCE FOR BLUE STAKE (602-263-1100) PRIOR TO ANY EXCAVATION.
3. THE CONTRACTOR IS RESPONSIBLE FOR ALL COORDINATION OF CONSTRUCTION AFFECTING UTILITIES AND THE COORDINATION OF ANY NECESSARY UTILITY RELOCATION WORK.
4. THE CONTRACTOR IS TO VERIFY THE LOCATION AND THE ELEVATIONS OF ALL EXISTING UTILITIES AT POINT OF TIE-IN PRIOR TO COMMENCING ANY NEW CONSTRUCTION. SHOULD ANY LOCATION OR ELEVATION DIFFER FROM THAT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL CONTACT THE CITY ENGINEER OR HIS REPRESENTATIVE.
5. CONTRACTOR TO VERIFY AND COORDINATE ALL DIMENSIONS BEFORE STARTING WORK, REPORT DISCREPANCIES TO CITY ENGINEER OR HIS REPRESENTATIVE.
6. COORDINATION BETWEEN ALL PARTIES IS AN ESSENTIAL PART OF THE CONTRACT.
7. THE CONTRACTOR IS RESPONSIBLE TO COORDINATE WORK WITH WEATHER AND TRAFFIC CONDITIONS. THE PROJECT SITE MAY BE SUBJECT TO FLOODING AND ASSOCIATED HAZARDS.
8. EXISTING UNDERGROUND UTILITIES WERE COMPILED FROM THE LATEST AVAILABLE UTILITY RECORDS AND SHOULD BE CONSIDERED APPROXIMATE IN LOCATION AND POSSIBLY INCOMPLETE. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. NOTIFY THE CITY ENGINEER OR HIS REPRESENTATIVE IMMEDIATELY OF CONFLICTS OR DISCREPANCIES.
9. CONTRACTOR SHALL PROVIDE DUST CONTROL FOR ALL UNPAVED AREAS DURING CONSTRUCTION.
10. CONTRACTOR IS RESPONSIBLE FOR TRAFFIC CONTROL DURING CONSTRUCTION ACTIVITIES AND UNTIL THE PROJECT IS ACCEPTED AS SUBSTANTIALLY COMPLETE BY THE CITY ENGINEER OR HIS REPRESENTATIVE.
11. ALL STATIONING AND MEASUREMENT IS TO THE FACE OF CURB UNLESS OTHERWISE NOTED.

LEGEND

PROPOSED	EXISTING	EXISTING
BENCHMARK	PROPERTY CORNER	DECIDUOUS TREE
CURB & GUTTER	FIRE HYDRANT	SIGN
SINGLE CURB	REDUCER	BENCHMARK
NEW RIGHT-OF-WAY LINE	WATER METER	CURB & GUTTER
NEW TCE LINE	AIR RELEASE VALVE	WATERLINE
NEW AC PAVEMENT SEE SECTION 1	VALVE	SEWER LINE
MILL EXIST AC SEE SECTION 2	POWER POLE	SEWER FORCE MAIN
SLURRY SEAL SEE SECTION 3	GUY DOWN	GAS LINE
EXIST AC TO REMAIN	SEWER MANHOLE	IRRIGATION LINE
SAW CUT	SEWER CLEANOUT	OVERHEAD ELECTRIC LINE
NEW LED ON NEW LIGHT POLE	IRRIGATION MANHOLE	FIBER OPTIC LINE
NEW LED ON EXISTING LIGHT POLE	WATER MANHOLE	UNDERGROUND ELECTRIC LINE
	TELEPHONE MANHOLE	TELEPHONE LINE
	CATV MANHOLE	CABLE TV LINE
	TELEPHONE PEDESTAL	GUARDRAIL
	CATV PEDESTAL	BLOCK WALL
	STREETLIGHT	MONUMENT LINE
	STREETLIGHT	PROPERTY LINE
	TRAFFIC SIGNAL	EXISTING RIGHT-OF-WAY LINE
	TRAFFIC PULLBOX	
	PALM TREE	
	PINE TREE	



DRAWN BY:	DLR
DESIGNED BY:	JDF
CHECKED BY:	KAC
SHEET DWG:	GN02
DRAWING SCALE(S):	HORIZ N/A VERT. N/A

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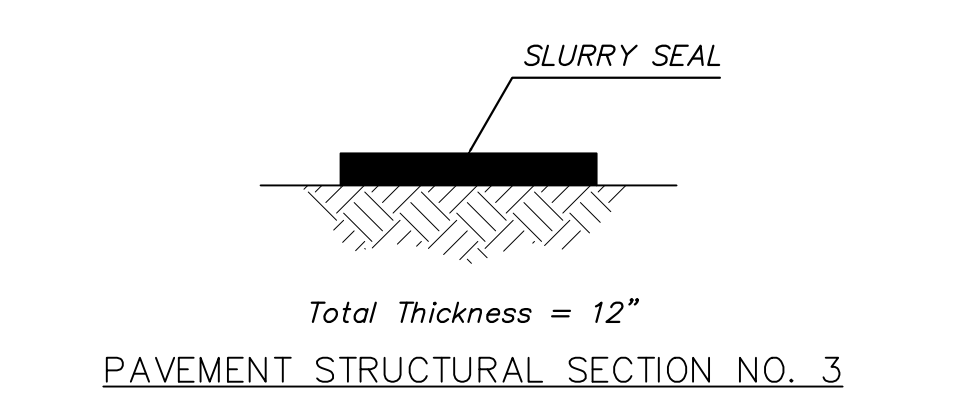
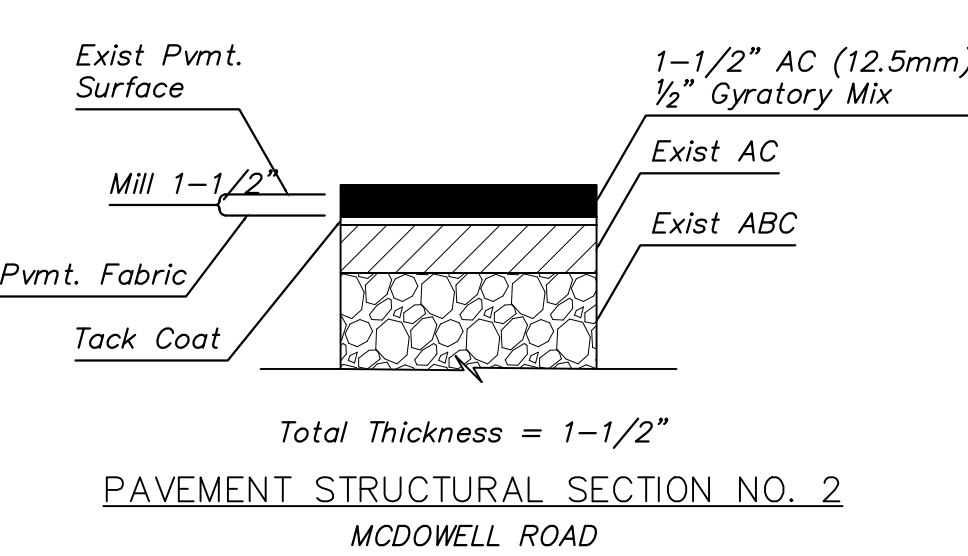
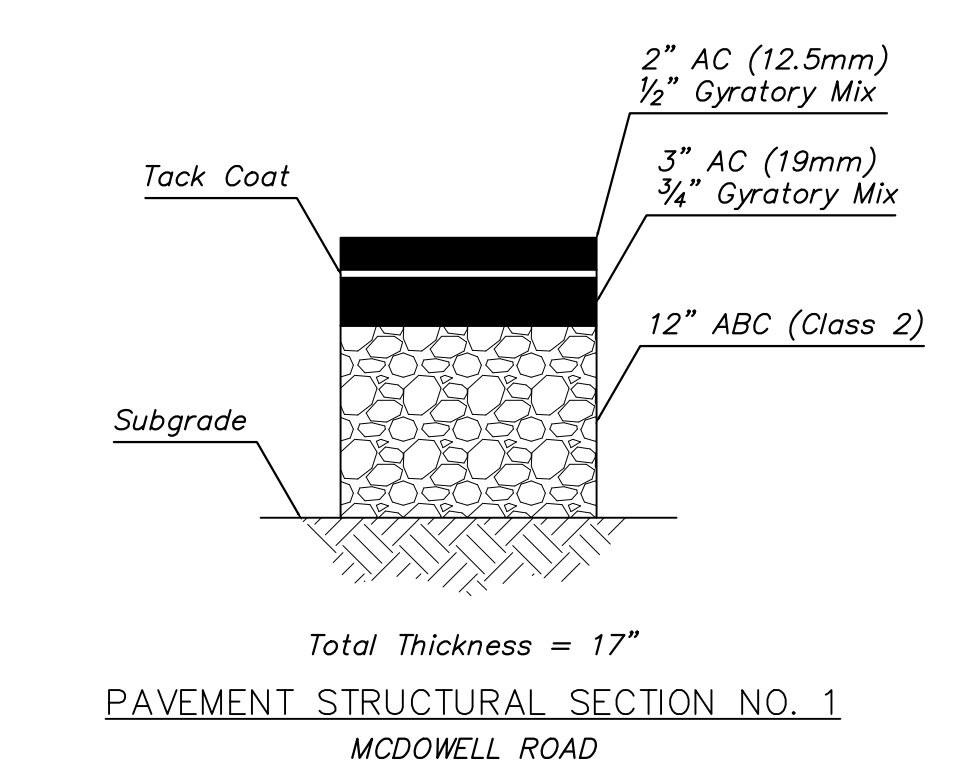
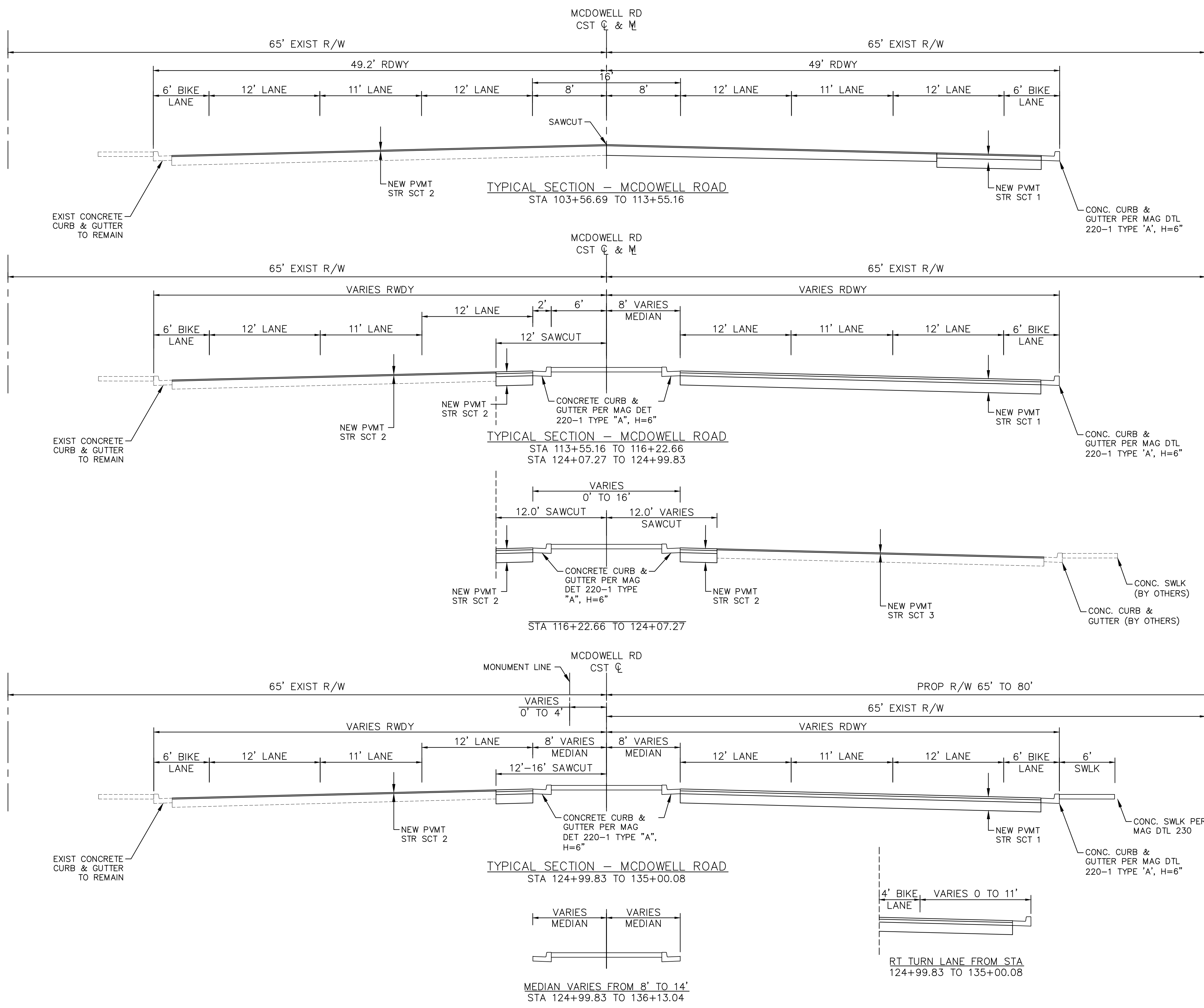
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 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
 SHEET NUMBER
2 OF 84
 PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David - Street - Set: McDowell Road - Layout: TX01 - October 10, 2018 04:12:51pm K:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road - Roadway\191323121 - 003.dwg



DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	TX01
SHEET DWG:	N/A
DRAWING HORZ:	N/A
SCALE(S):	VERT. N/A

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TYPICAL SECTIONS
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE:

SHEET NUMBER: 3 OF 84
 PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David - Street - Set: McDowell Road - Layout: TX02 - October 10, 2018 04:13:00pm - ks:\Phx_Roadways\191323121 - 107th Avenue and McDowell Road - Roadway\191323121 - G03.dwg

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	TX02
SHEET DWG:	N/A
DRAWING HORIZ:	N/A
SCALE(S):	VERT. N/A

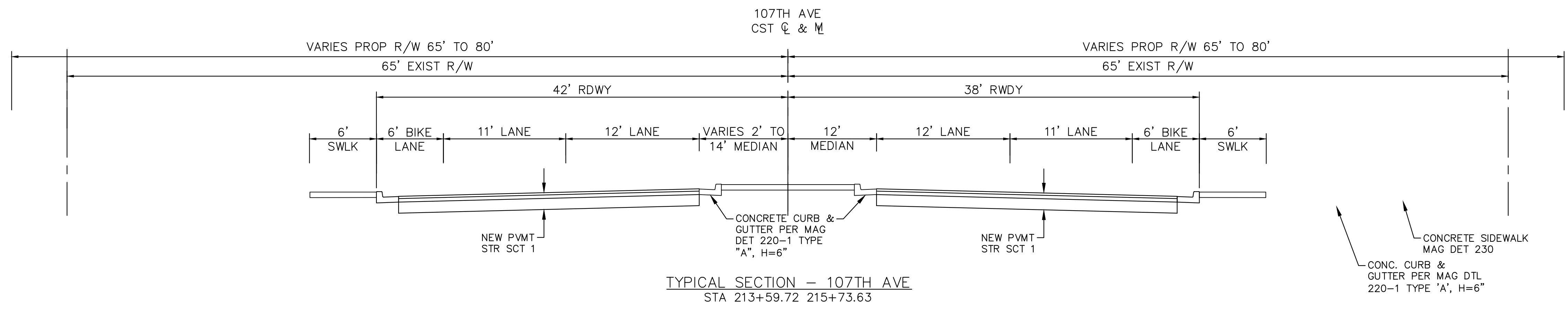
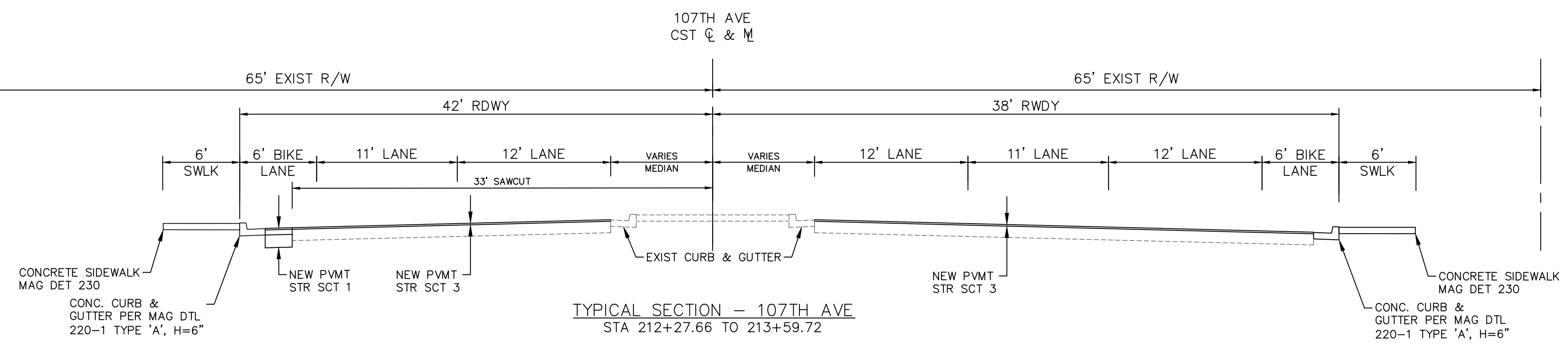
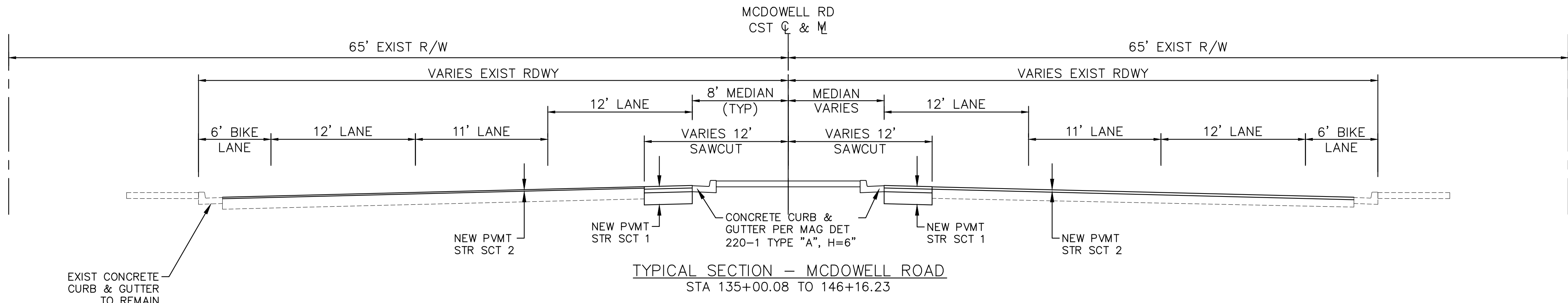
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SHEET TYPE: TYPICAL SECTIONS
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 PROJECT NUMBER: ST1224

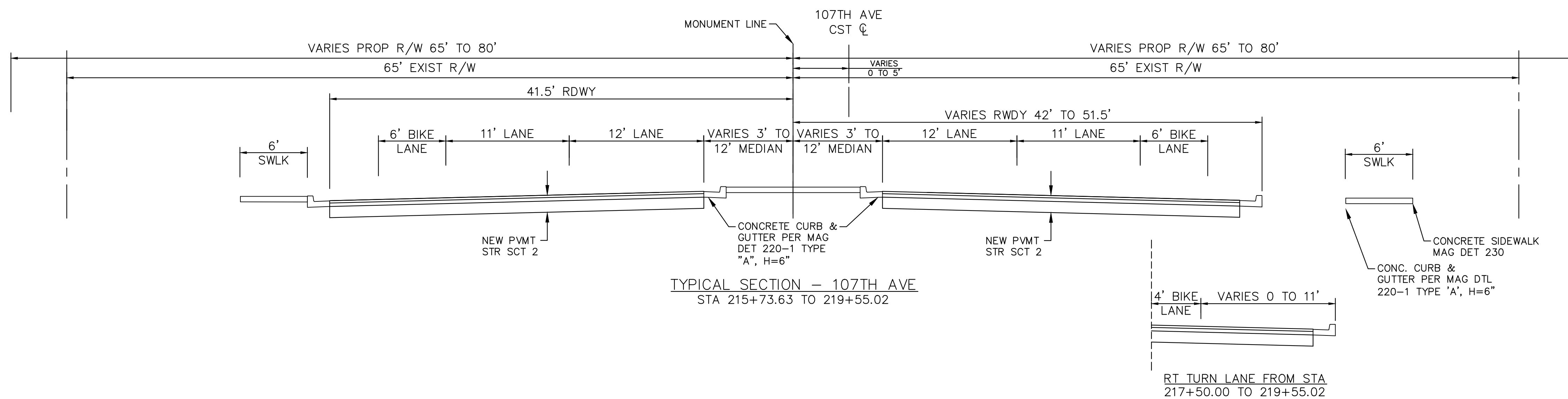
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ORIGINAL PLAN DATE
 10-5-2018

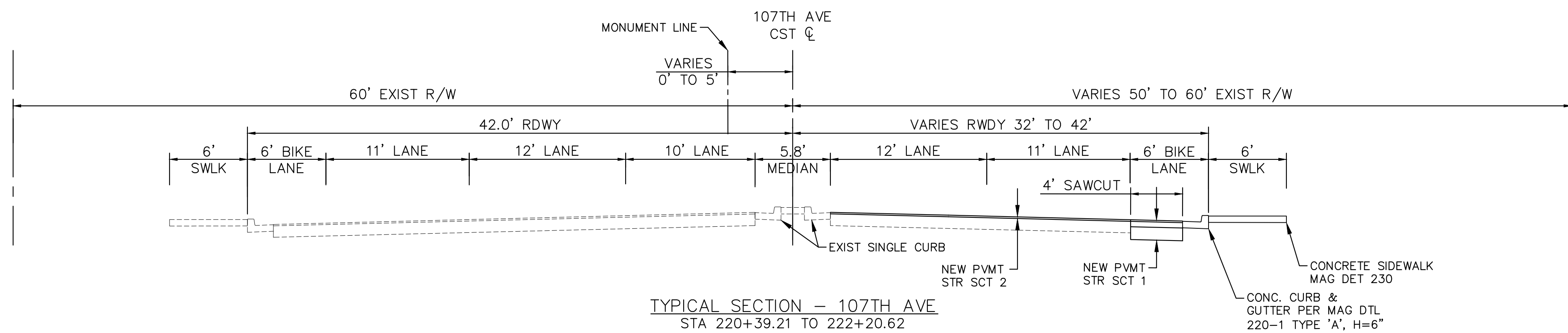
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 PROJECT NUMBER
 ST1224



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TYPICAL SECTION - 107TH AVE
STA 215+73.63 TO 219+55.02



TYPICAL SECTION - 107TH AVE
STA 220+39.21 TO 222+20.62

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	TX03
SHEET DWG:	N/A
DRAWING HORIZ:	N/A
SCALE(S):	VERT. N/A

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SHEET TYPE:	TYPICAL SECTIONS
PROJECT NAME:	107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER:	ST1224

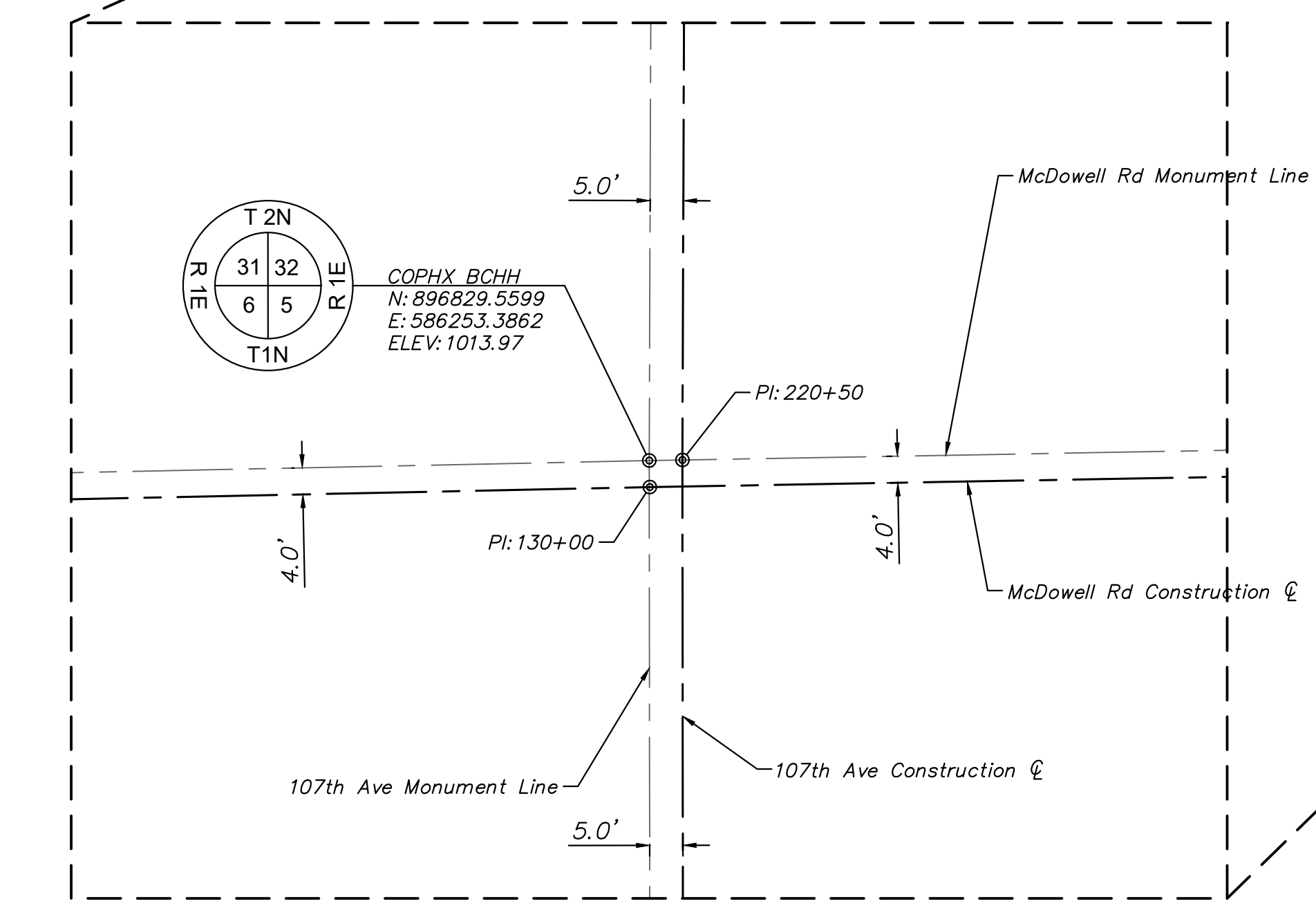
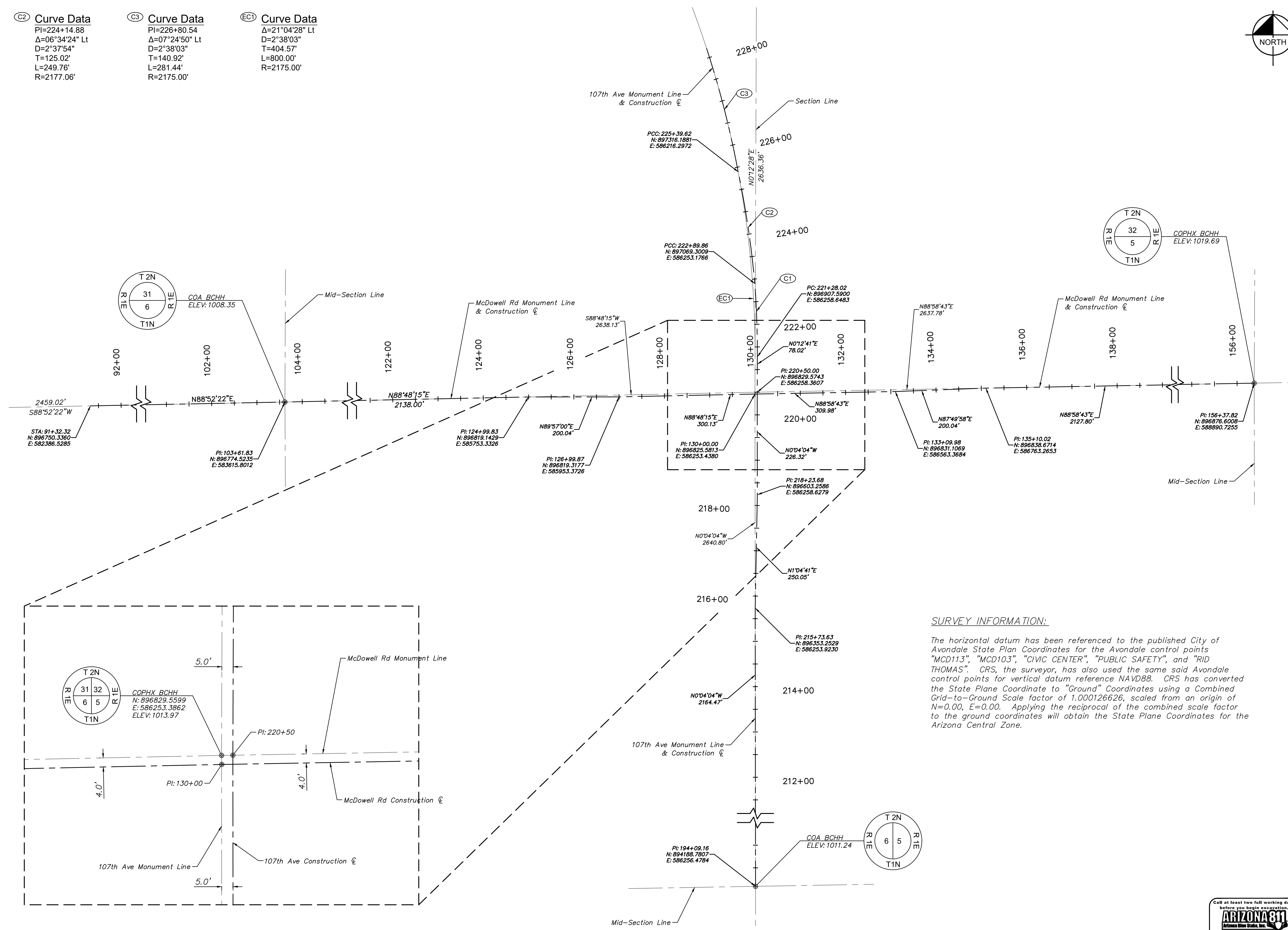
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NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
- - -
SHEET NUMBER
5 OF 84
PROJECT NUMBER
ST1224

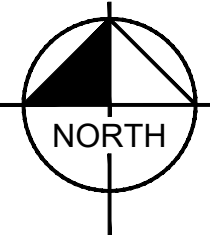


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SURVEY INFORMATION:

The horizontal datum has been referenced to the published City of Avondale State Plan Coordinates for the Avondale control points "MCD113", "MCD103", "CIVIC CENTER", "PUBLIC SAFETY", and "RID THOMAS". CRS, the surveyor, has also used the same said Avondale control points for vertical datum reference NAVD88. CRS has converted the State Plane Coordinate to "Ground" Coordinates using a Combined Grid-to-Ground Scale factor of 1.000126626, scaled from an origin of N=0.00, E=0.00. Applying the reciprocal of the combined scale factor to the ground coordinates will obtain the State Plane Coordinates for the Arizona Central Zone.



DRAWN BY: DJR	DESIGNED BY: JDF	CHECKED BY: KAC	SHEET DWG: GC01
DRAWING HORIZ: 1"=200'			SCALE(S) VERT: N/A

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SHEET TYPE: GEOMETRIC CONTROL SHEET
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

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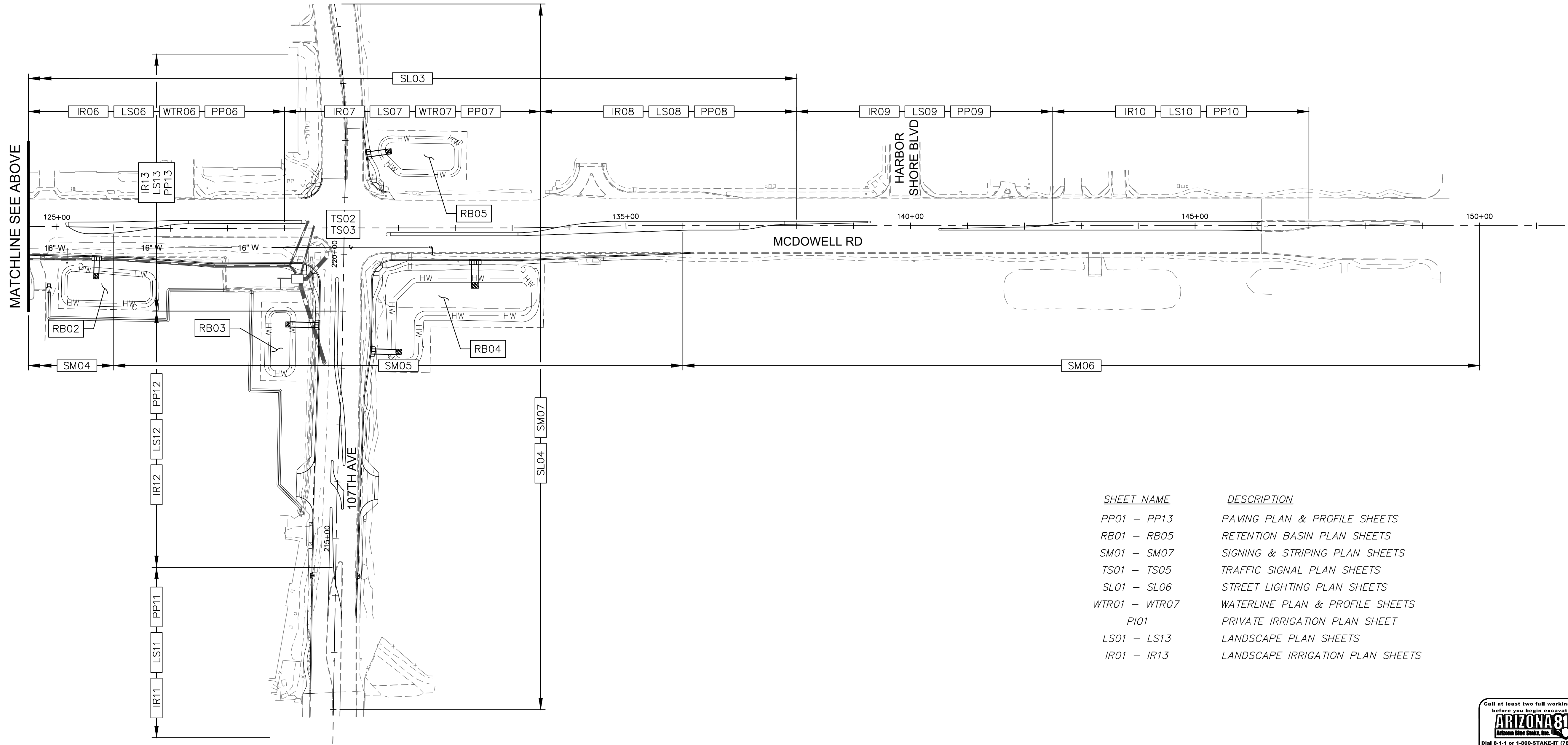
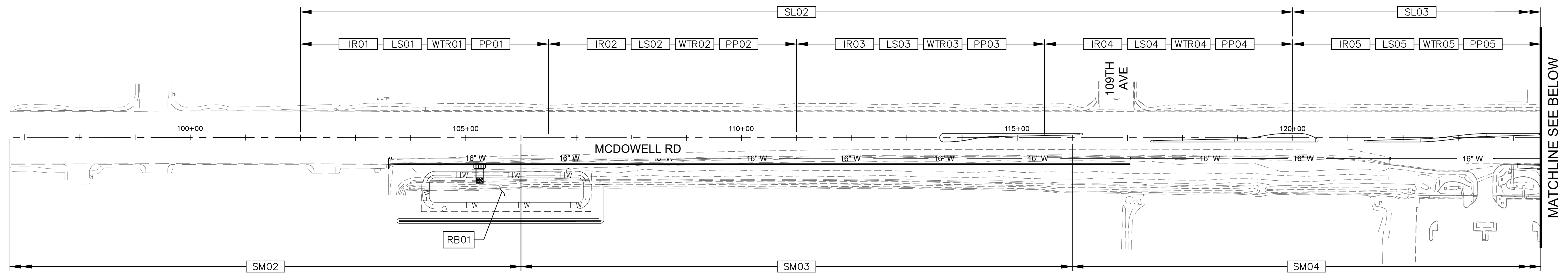
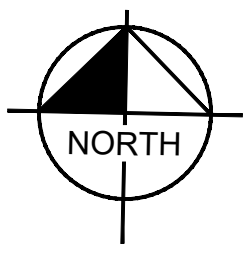
ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: -

SHEET NUMBER: 6 OF 84
PROJECT NUMBER: ST1224



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SHEET NAME	DESCRIPTION
PP01 - PP13	PAVING PLAN & PROFILE SHEETS
RB01 - RB05	RETENTION BASIN PLAN SHEETS
SM01 - SM07	SIGNING & STRIPING PLAN SHEETS
TS01 - TS05	TRAFFIC SIGNAL PLAN SHEETS
SL01 - SL06	STREET LIGHTING PLAN SHEETS
WTR01 - WTR07	WATERLINE PLAN & PROFILE SHEETS
PI01	PRIVATE IRRIGATION PLAN SHEET
LS01 - LS13	LANDSCAPE PLAN SHEETS
IR01 - IR13	LANDSCAPE IRRIGATION PLAN SHEETS

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	KM01
SHEET DWG:	1"=100'
DRAWING HORIZ:	N/A
SCALE(S) VERT:	N/A

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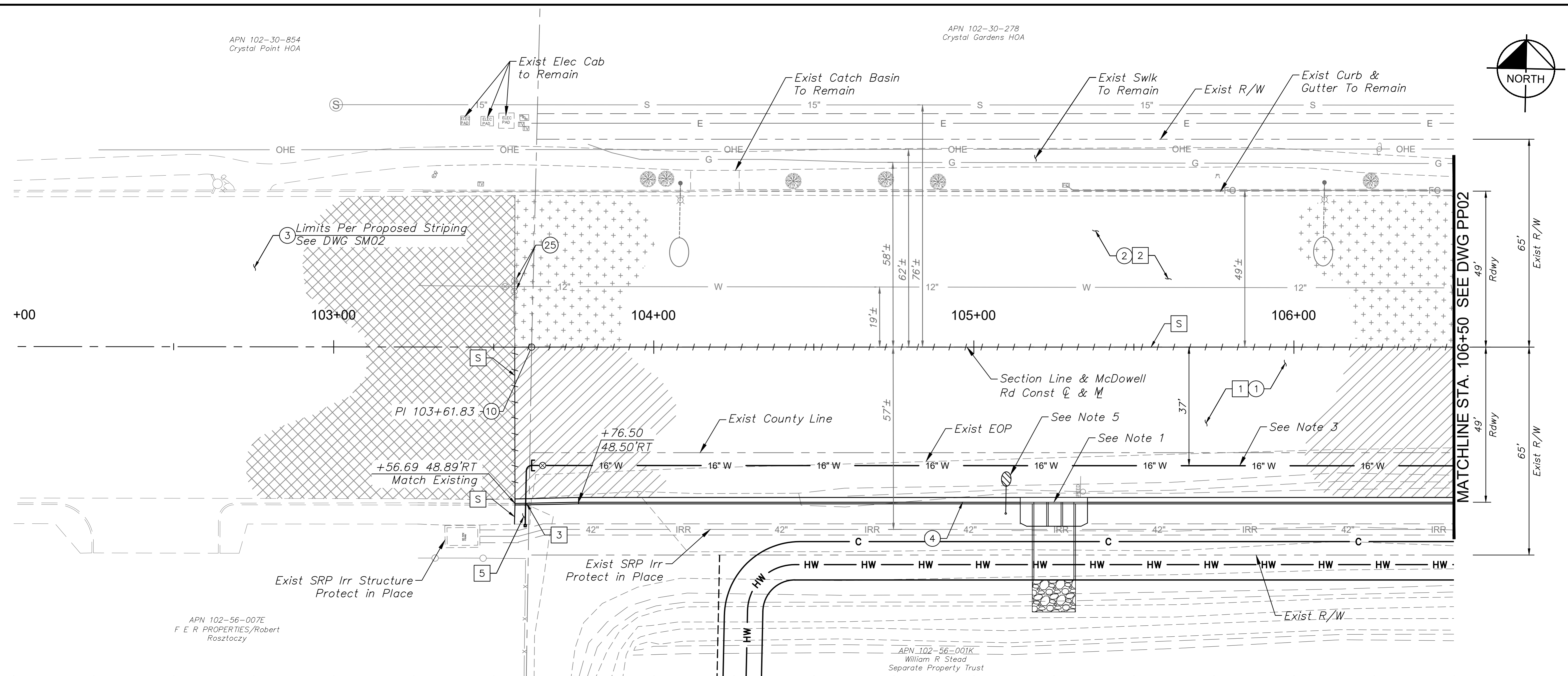
KEY MAP
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PROJECT NUMBER ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE 10-5-2018
LATEST REVISION DATE -
SHEET NUMBER 7 OF 84
PROJECT NUMBER ST1224



Plotted By: Rodriguez, David Sheet: Sct: McDowell Road Layout: PPO1 October 10, 2018 04:14:07pm ks:\proj_Roadways\191323121_107th Avenue and McDowell Road\191323121_PPO1.dwg



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	QTY	UNIT
1	Remove Exist AC Pavement	1,157	SY
2	1-1/2" Mill Exist Pavement	1,543	SY
3	Remove Exist Curb & Gutter	5	LF
5	Remove Exist Sidewalk	29	SF

CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	1,533	SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	1,543	SY
3	Pavement Per Structural Section No. 3, See DWG TX01	5,023	SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	293	LF
10	Survey Marker Per MAG Dtl 120, Type 'A'	1	EA
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	2	EA

SHEET NOTES

- See DWG RB01 for Drainage Plan
- See DWG SM02 for Signing & Striping Plan.
- See DWG WTR01 for Waterline Plan.
- See DWG PI01 for Private Irrigation Plan.
- See DWG SLO2 for Lighting Plan.

[S] Sawcut Existing Pavement

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PP01
SHEET DWG:	1'-20"
DRAWING HORIZ:	1'-20"
SCALE(S):	VERT. 1'-2"

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PAVING PLAN & PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

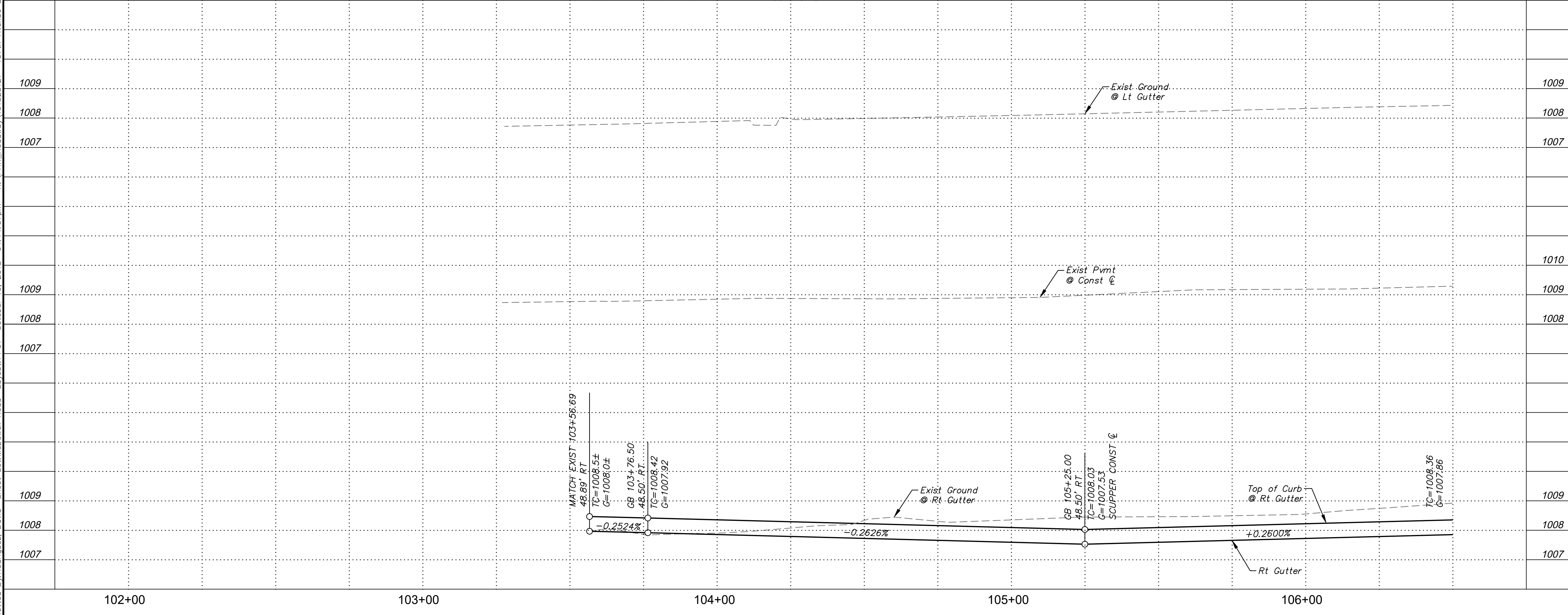
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10-5-2018

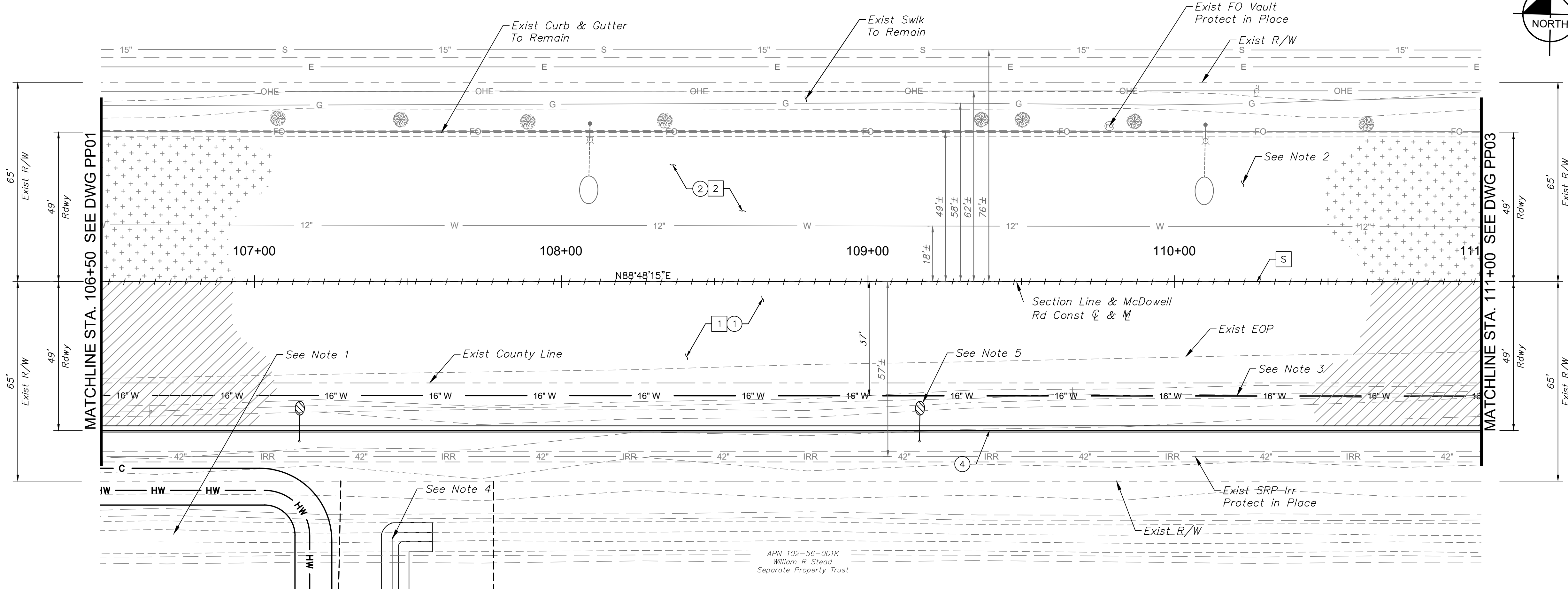
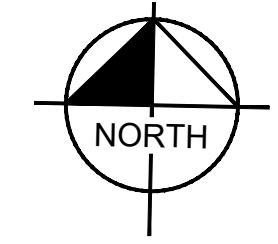
LATEST REVISION DATE

SHEET NUMBER
8 OF 84

PROJECT NUMBER
ST1224



APN 102-30-278
Crystal Gardens HOA



APN 102-56-001K
William R Stead
Separate Property Trust

REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	1,362 SY
2	1-1/2" Mill Exist Pavement	2,365 SY

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PP02
SHEET DWG:	1'-20"
DRAWING HORIZ:	1'-20"
SCALE(S) VERT:	1'-2"

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CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	2,350 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	2,365 SY
4	Concrete Curb & Gutter Per MAG, Dtl 220-1, Type 'A', H=6"	450 LF

- SHEET NOTES**
- See DWG RB01 for Drainage Plan
 - See DWG SM03 for Signing & Striping Plan.
 - See DWG WTR02 for Waterline Plan.
 - See DWG PI01 for Private Irrigation Plan.
 - See DWG SLO2 for Lighting Plan.
- [S] Sawcut Existing Pavement

PAVING PLAN & PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

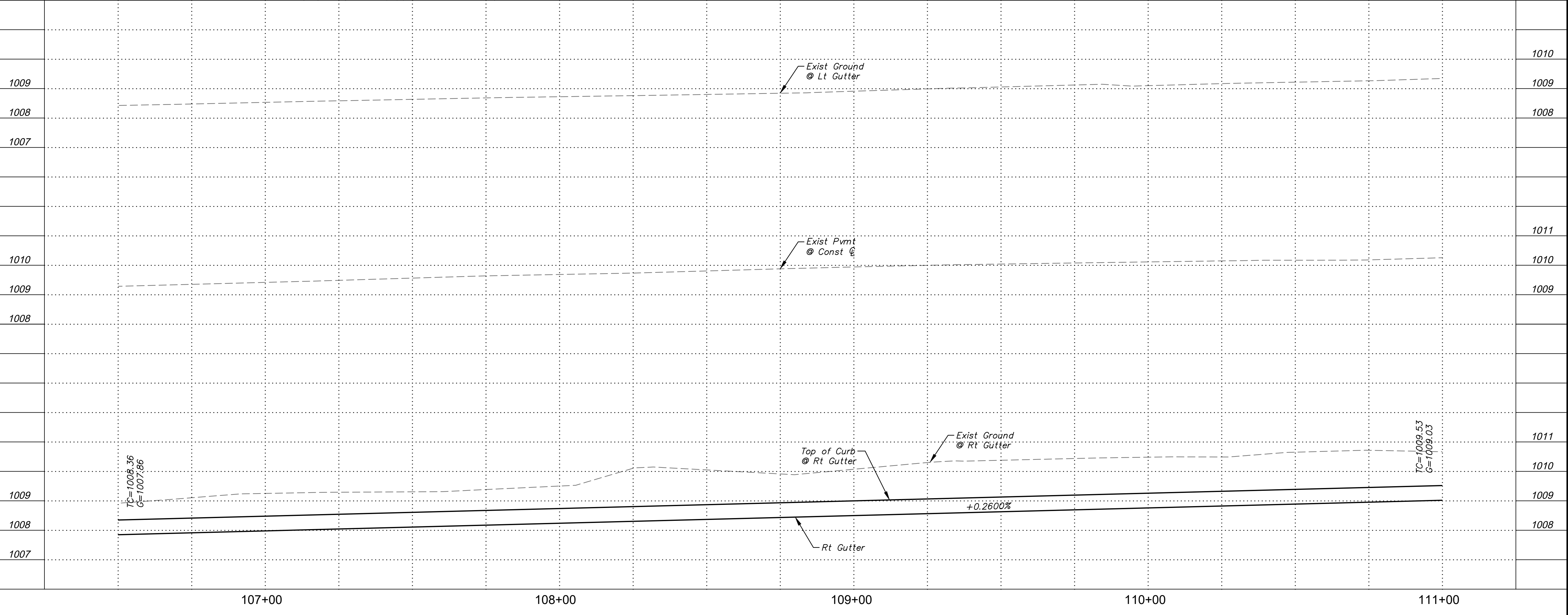
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ORIGINAL PLAN DATE
10-5-2018

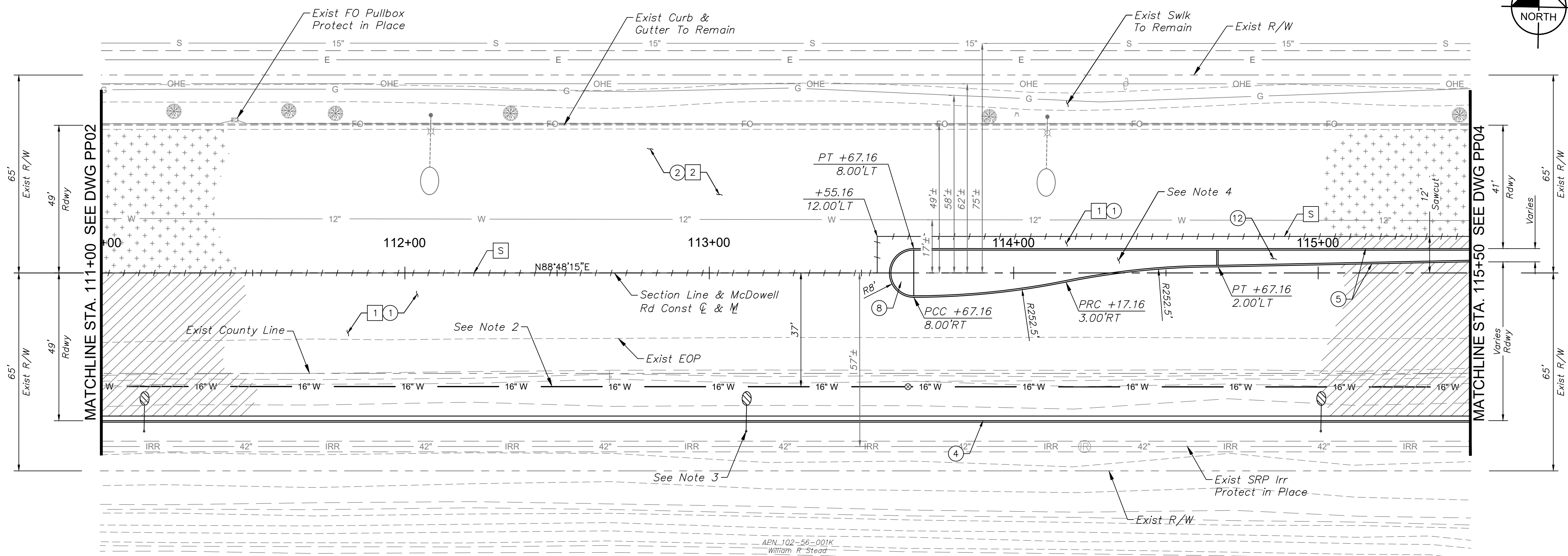
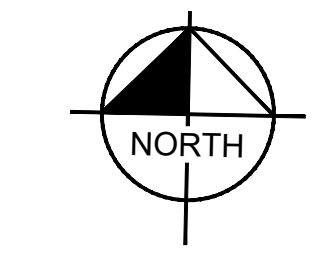
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9 OF 84
PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Sheet: Set: McDowell Road Layout: PP02 October 10, 2018 04:14:34pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Streets\Roadway\191323121-PP02.dwg



APN 102-30-278
Crystal Gardens HOA



REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	QTY	UNIT
1	Remove Exist AC Pavement	1,336	SY
2	1-1/2" Mill Exist Pavement	2,099	SY

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PP03
SHEET DWG:	1'-20"
DRAWING HORIZ:	1'-20"
SCALE(S) VERT:	1'-2"

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Phoenix, Arizona 85020 (602) 944-5500

CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	2,429	SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	2,099	SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	450	LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	390	LF
8	End of Median Ramp, Per COA Dtl 1220	1	EA
12	Median Concrete Pavers, See DWG LS03 for Details	-	-

SHEET NOTES

- See DWG SM03 for Signing & Striping Plan.
- See DWG WTR03 for Waterline Plan.
- See DWG SLO2 for Lighting Plan.
- See DWG LS03 for Landscape Plan.

[S] Sawcut Existing Pavement

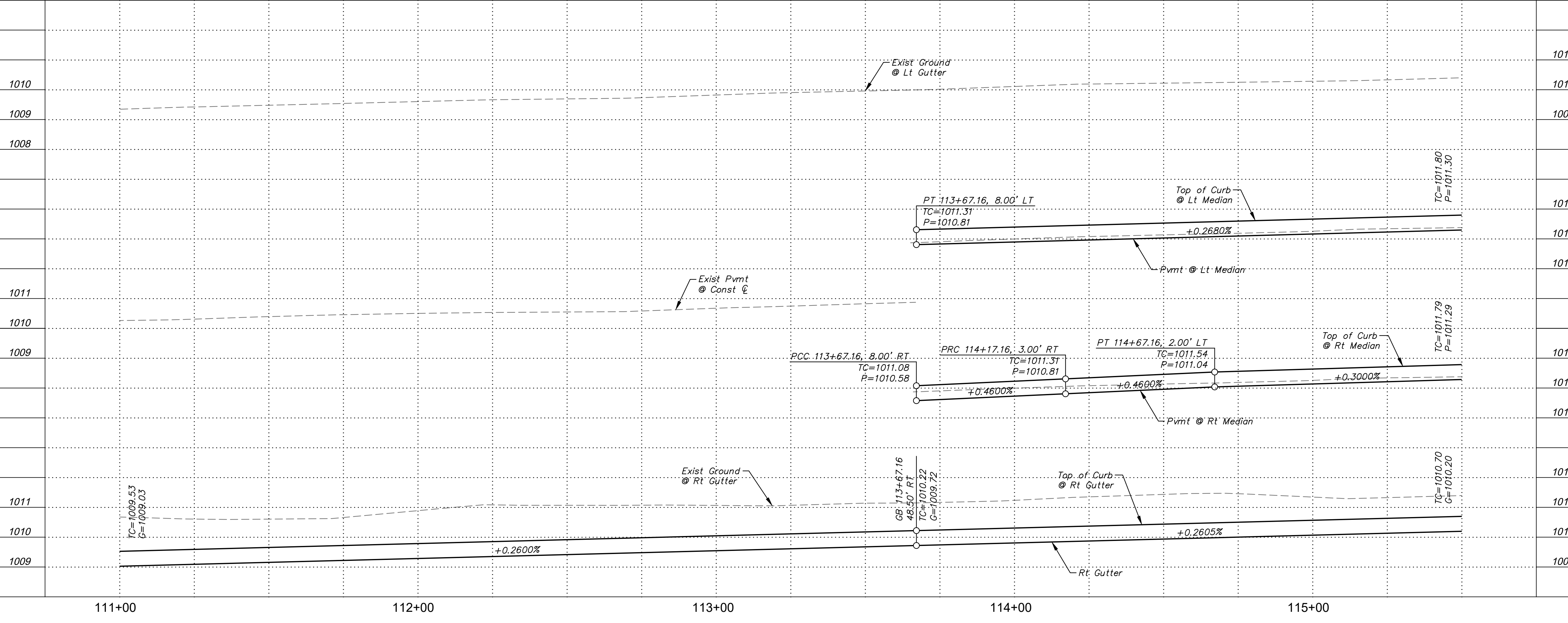
PAVING PLAN & PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
SHEET NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

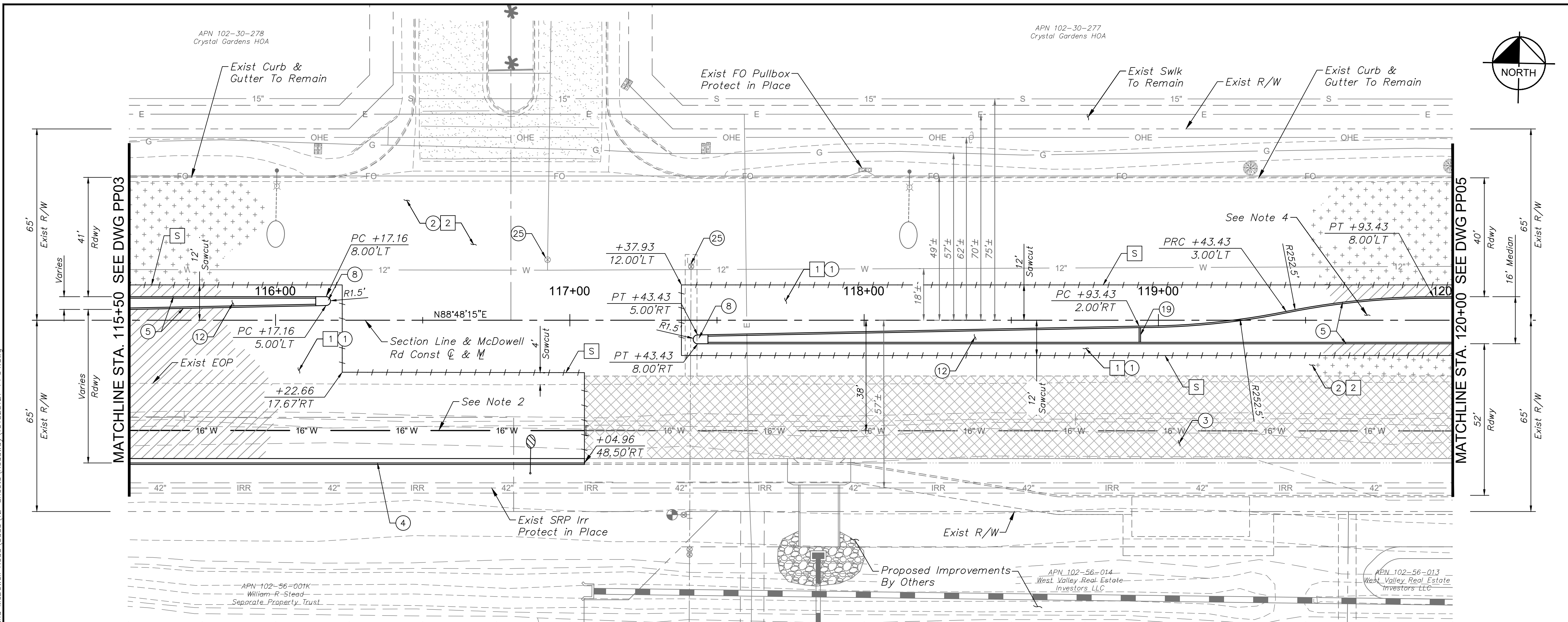
ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: -
SHEET NUMBER: 10 OF 84
PROJECT NUMBER: ST1224



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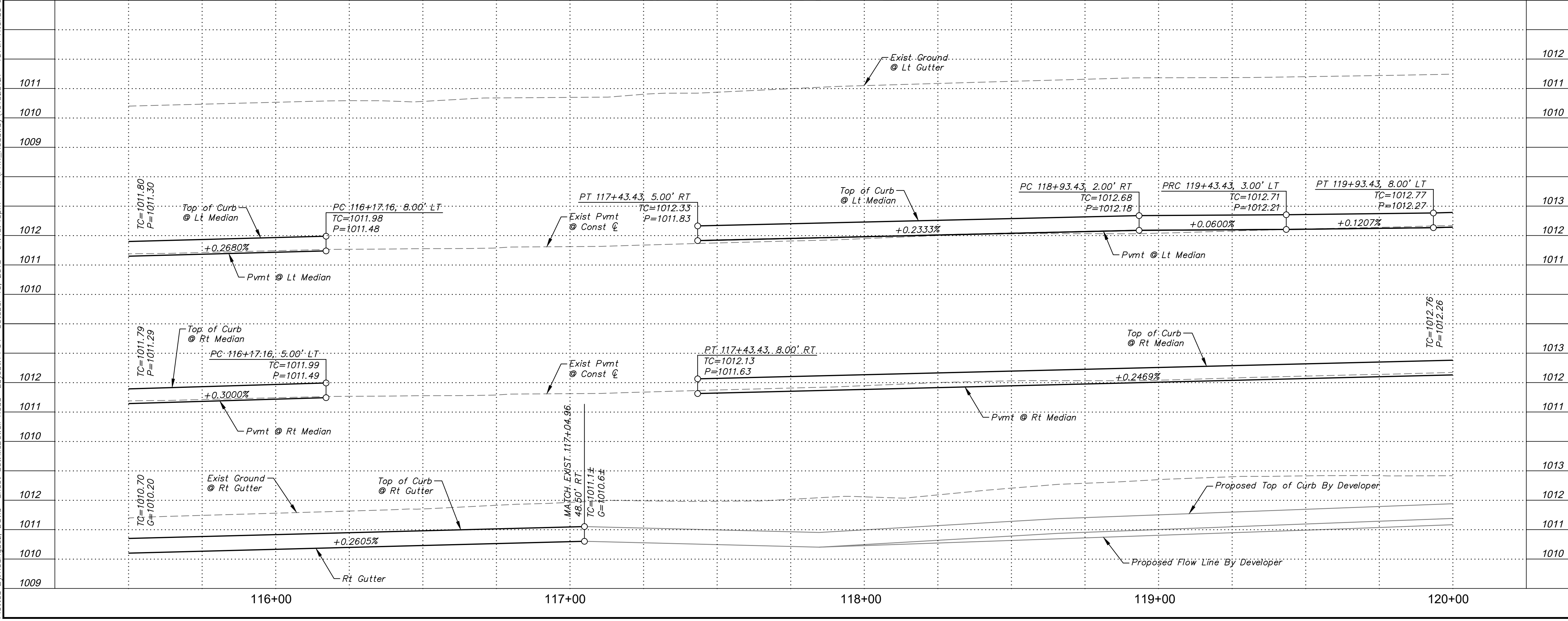


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REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	1,007 SY
2	1-1/2" Mill Exist Pavement	2,345 SY

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	1,206 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	2,345 SY
3	Pavement Per Structural Section No. 3, See DWG TX01	919 SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	155 LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	634 LF
8	End of Median Ramp, Per COA Dtl 1220	2 EA
12	Median Concrete Pavers, See DWG LS04 for Details	-
19	Concrete Header (6")	5 LF
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	2 EA



SHEET NOTES	
1.	See DWG SM04 for Signing & Striping Plan.
2.	See DWG WTR04 for Waterline Plan.
3.	See DWG SLO2 for Lighting Plan.
4.	See DWG LS04 for Landscape Plan.
S	Sawcut Existing Pavement

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PAVING PLAN & PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
 SHEET NUMBER
ST1224

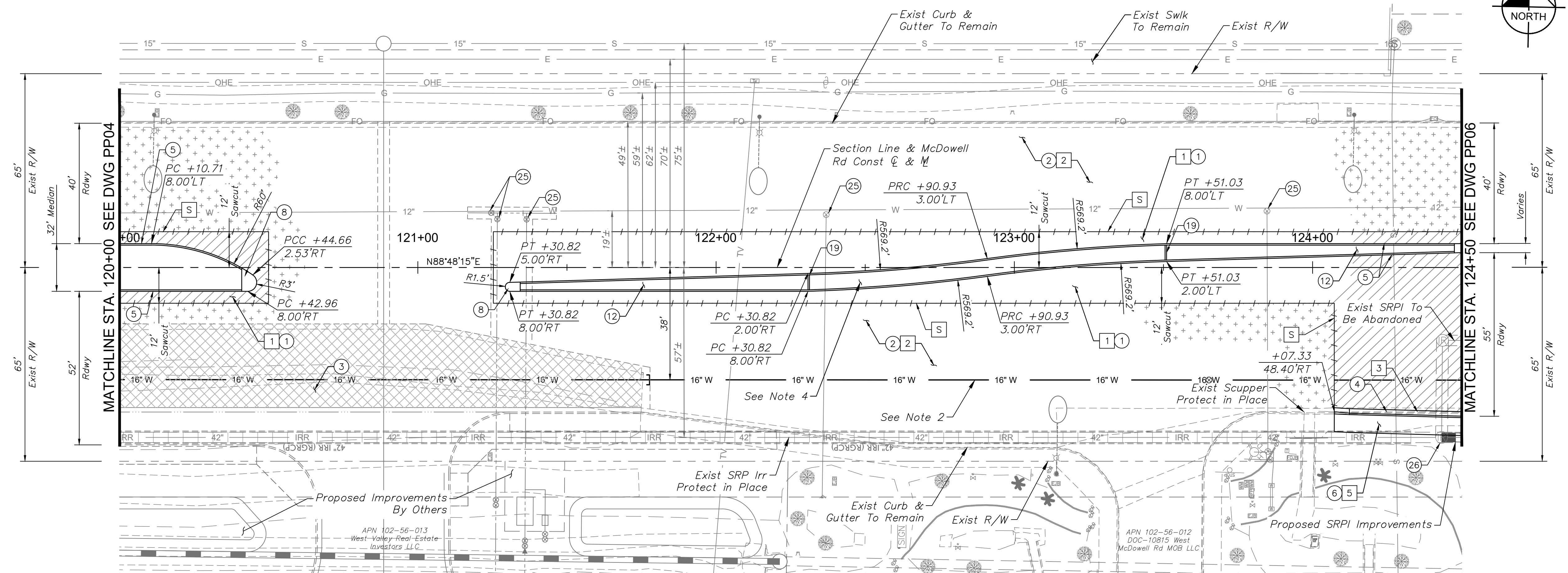
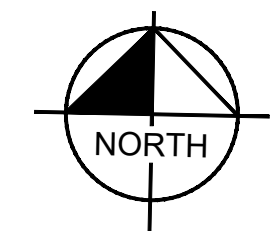
PRELIMINARY
60%
 NOT FOR CONSTRUCTION
 ORIGINAL PLAN DATE
10-5-2018
 LATEST REVISION DATE
 SHEET NUMBER
11 OF 84
 PROJECT NUMBER
ST1224



APN 102-30-278
Crystal Gardens HOA

APN 102-30-277
Crystal Gardens HOA

APN 102-30-852A
Crystal Gardens
Properties LLC



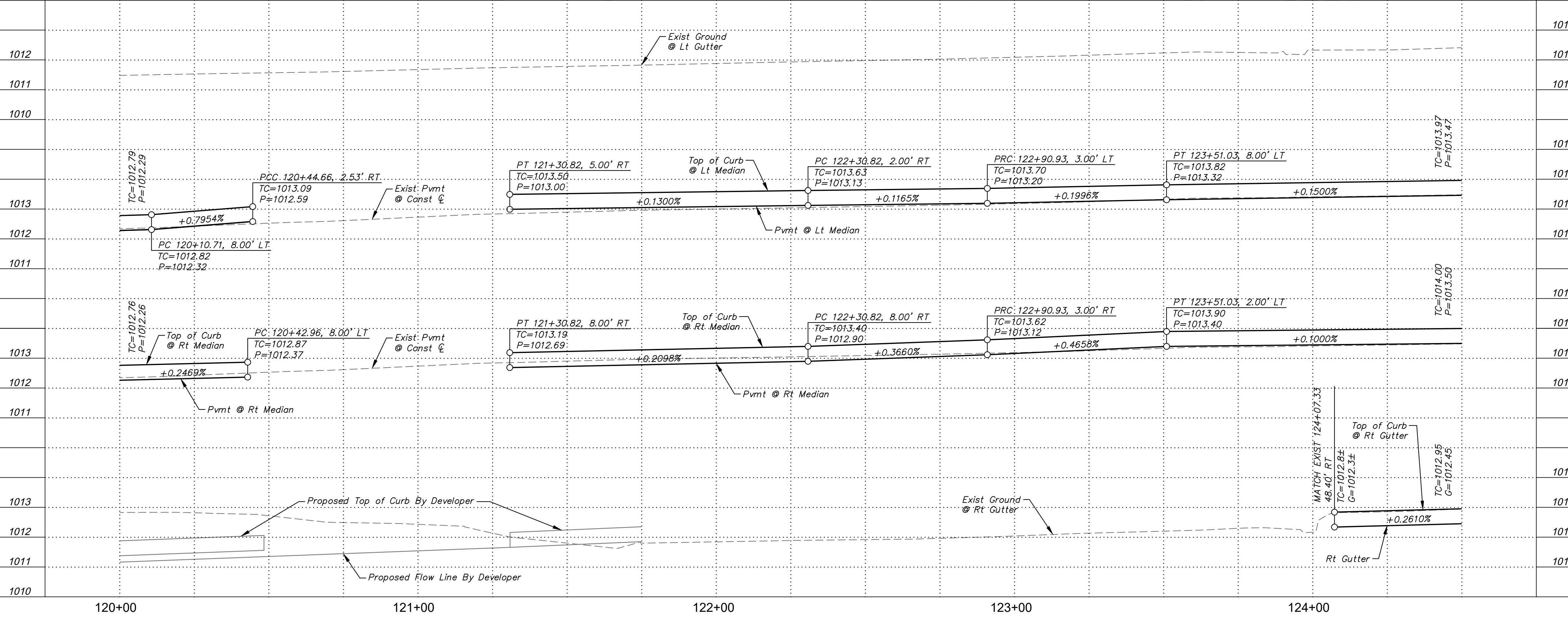
REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	1,166 SY
2	1-1/2" Mill Exist Pavement	3,173 SY
3	Remove Exist Curb & Gutter	43 LF
5	Remove Exist Sidewalk	225 SF

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PP05
SHEET DWG:	1'-20"
DRAWING HORIZ:	1'-20"
SCALE(S) VERT:	1'-2"

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CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	923 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	3,173 SY
3	Pavement Per Structural Section No. 3, See DWG TX01	489 SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	43 LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	711 LF
6	6' Concrete Sidewalk Per MAG Dtl 230	256 SF
8	End of Median Ramp, Per COA Dtl 1220	2 EA
12	Median Concrete Pavers, See DWG LS05 for Details	-
19	Concrete Header (6")	10 LF
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	5 EA
26	Adjust Manhole Frame & Cover Per MAG Dtl 422	1 EA

SHEET TYPE: PAVING PLAN & PROFILE
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224



SHEET NOTES	
1.	See DWG SM04 for Signing & Striping Plan.
2.	See DWG WTR05 for Waterline Plan.
3.	See DWG SL03 for Lighting Plan.
4.	See DWG LS05 for Landscape Plan.
S	Sawcut Existing Pavement

PRELIMINARY
60%
NOT FOR CONSTRUCTION

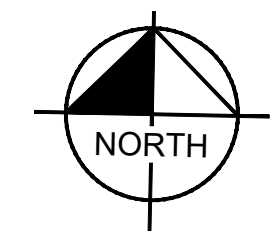
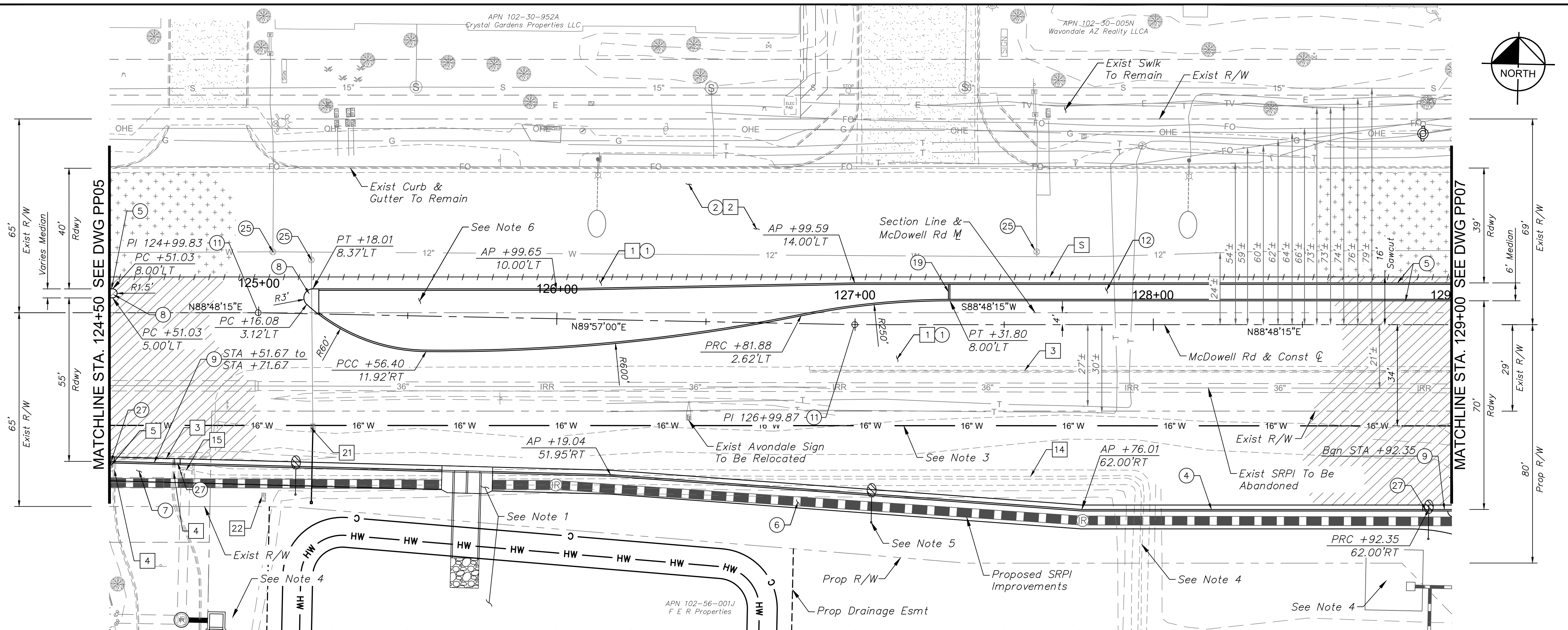
ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: -

SHEET NUMBER: 12 OF 84
PROJECT NUMBER: ST1224



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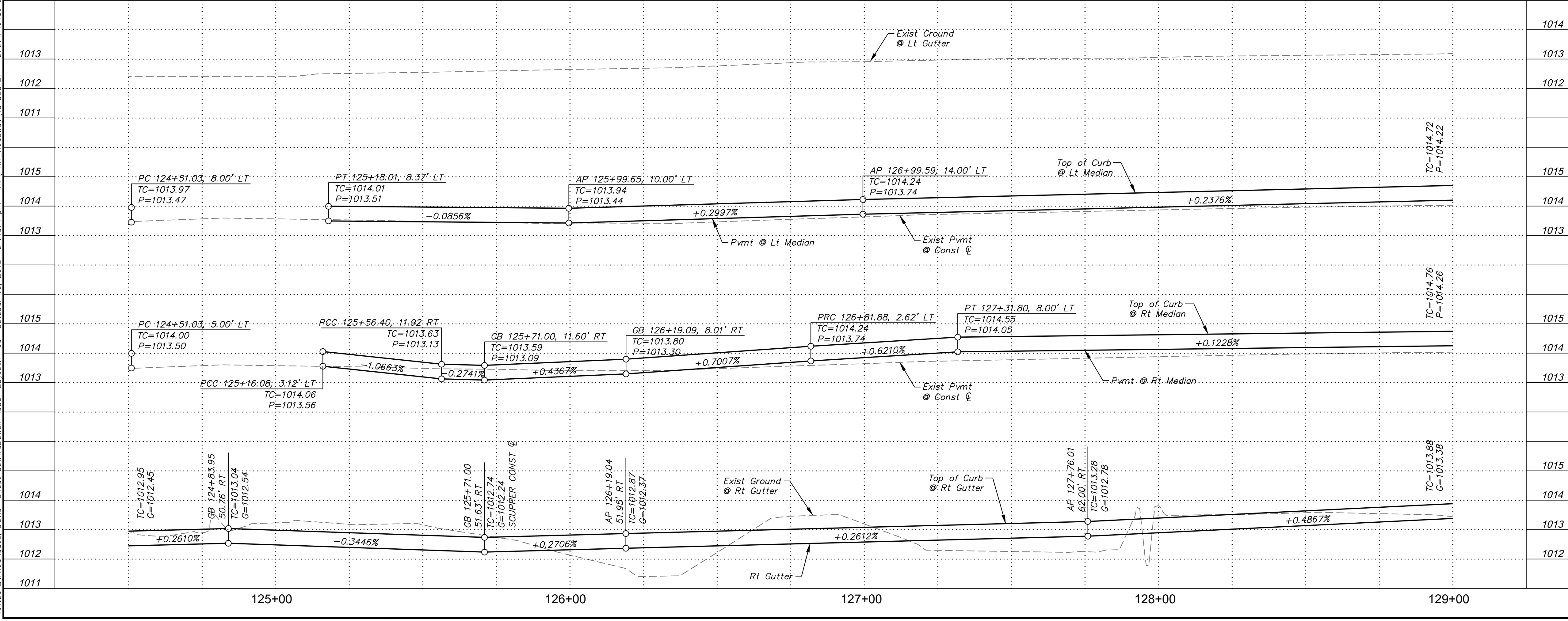
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REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	1,623 SY
2	1-1/2" Mill Exist Pavement	1,755 SY
3	Remove Exist Curb & Gutter	249 LF
4	Remove Exist Single Curb	15 LF
5	Remove Exist Sidewalk	5 SF
14	Remove Exist Conc. Irrigation Ditch, See DWG PI01	-
15	Remove Exist Conc. Headwall	1 EA
21	Relocate Exist Water Meter	1 EA
22	Relocate Exist Elec Pull Box	1 EA

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	2,988 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	1,755 SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	417 LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	764 LF
6	6" Concrete Sidewalk Per MAG Dtl 230	2,595 SF
7	9" Thick, Concrete Sidewalk Per MAG Dtl 230	114 SF
8	End of Median Ramp, Per COA Dtl 1220	2 EA
9	Concrete Mountable Curb & Gutter Per MAG Dtl 220-2, Type 'E'	33 LF
11	Survey Marker Per MAG Dtl 120, Type 'B'	2 EA
12	Median Concrete Pavers, See DWG LS06 for Details	-
19	Concrete Header (6")	5 LF
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	3 EA
27	Curb Transition Type 'E' To Type 'A'	-

SHEET NOTES	
1.	See DWG RB02 for Drainage Plan
2.	See DWG SM05 for Signing & Striping Plan.
3.	See DWG WTR06 for Waterline Plan.
4.	See DWG PI01 for Private Irrigation Plan.
5.	See DWG SLO3 for Lighting Plan.
6.	See DWG LS06 for Landscape Plan.
S	Sawcut Existing Pavement



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DRAWN BY: DJR
 DESIGNED BY: JDF
 CHECKED BY: KAC
 SHEET DWG: PP06
 DRAWING HORZ: 1"=20'
 SCALE(S) VERT: 1"=2'

PAVING PLAN & PROFILE
 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 SHEET NUMBER
ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

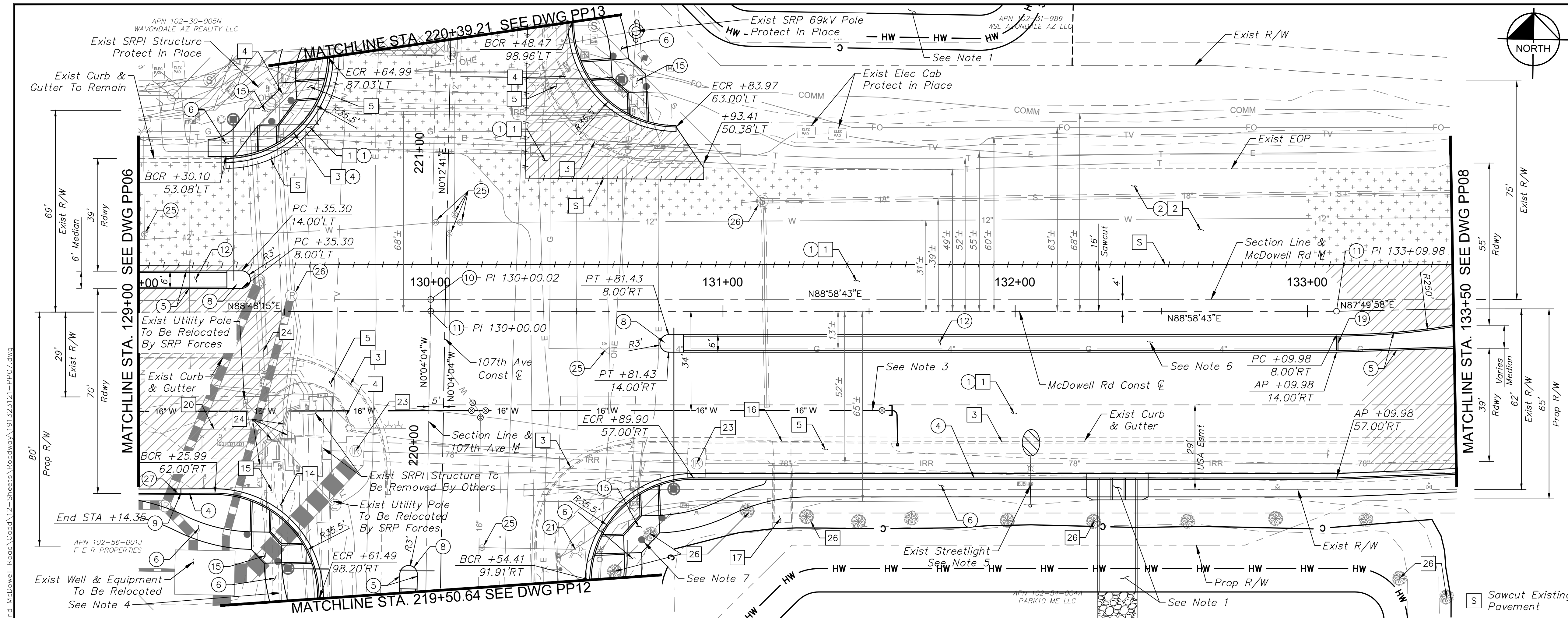
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SHEET NUMBER
13 OF 84

PROJECT NUMBER
ST1224

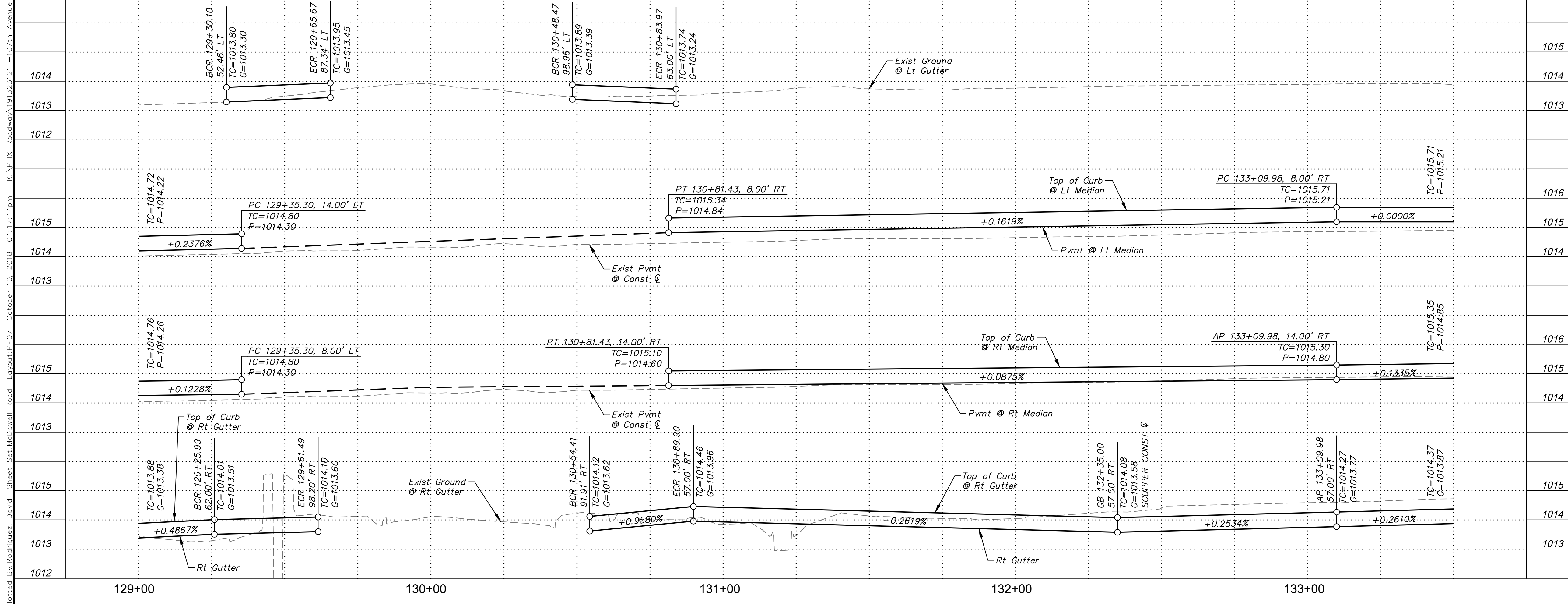
Call at least two full working days before you begin construction.

Arizona State Seal
 In Maricopa County: (602) 255-1100



REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	3,138 SY
2	1-1/2" Mill Exist Pavement	1,949 SY
3	Remove Exist Curb & Gutter	605 LF
4	Remove Exist Single Curb	96 LF
5	Remove Exist Sidewalk	3,092 SF
14	Remove Exist Conc. Irrigation Ditch, See DWG PI01	-
15	Remove Exist Conc. Headwall	1 EA
16	Remove Exist Conc. Scupper	1 EA
17	Remove Exist Conc. Spillway	156 SF
20	Remove Exist Fence	80 LF
23	Exist SRPI Manhole To Be Adjusted	2 EA
24	Remove Exist Pipe, Backfill & Compact	220 LF
26	Remove Exist Tree	7 EA

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	4,063 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	1,949 SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	496 LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	591 LF
6	6' Concrete Sidewalk Per MAG Dtl 230	2,298 SF
8	End of Median Ramp, Per COA Dtl 1220	3 EA
9	Concrete Mountable Curb & Gutter, Per MAG Dtl 220-2, Type 'E'	14 LF
10	Survey Marker Per MAG Dtl 120, Type 'A'	1 EA
11	Survey Marker Per MAG Dtl 120, Type 'B'	2 EA
12	Median Concrete Pavers, See DWG LS07 for Details	-
15	Bi-Directional Sidewalk Ramp Per COA Dtl A1235-3	4 EA
19	Concrete Header (6")	5 LF
21	Relocate Fire Hydrant Per COA Dtl 1362	1 EA
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	6 EA
26	Adjust Manhole Frame & Cover Per MAG Dtl 422	2 EA
27	Curb Transition Type 'E' to Type 'A'	-



SHEET NOTES	
1.	See DWG RB04 & RB05 for Drainage Plan
2.	See DWG SM05 for Signing & Striping Plan.
3.	See DWG WTR07 for Waterline Plan.
4.	See DWG PI01 for Private Irrigation Plan.
5.	See DWG SL03 for Lighting Plan.
6.	See DWG LS07 for Landscape Plan.
7.	See DWG TS03 for Traffic Signal Plan.

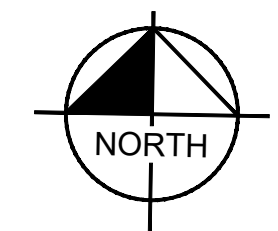
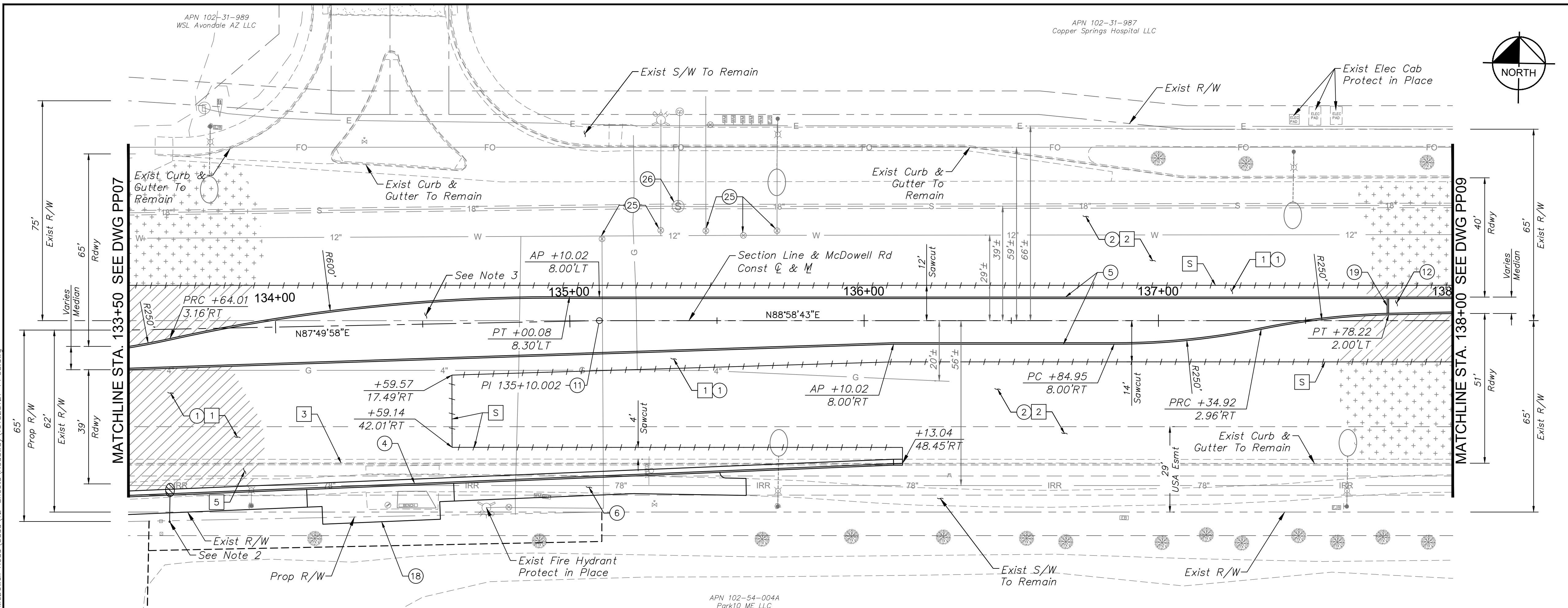
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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

DRAWN BY:	DLR	DESIGNED BY:	JDF	CHECKED BY:	KAC
SHEET DWG:	PP07	DRAWING HORIZ:	1"=20'	SCALE(S) VERT:	1"=2'

PAVING PLAN & PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
 SHEET NUMBER
14 OF 84
 PROJECT NUMBER
ST1224

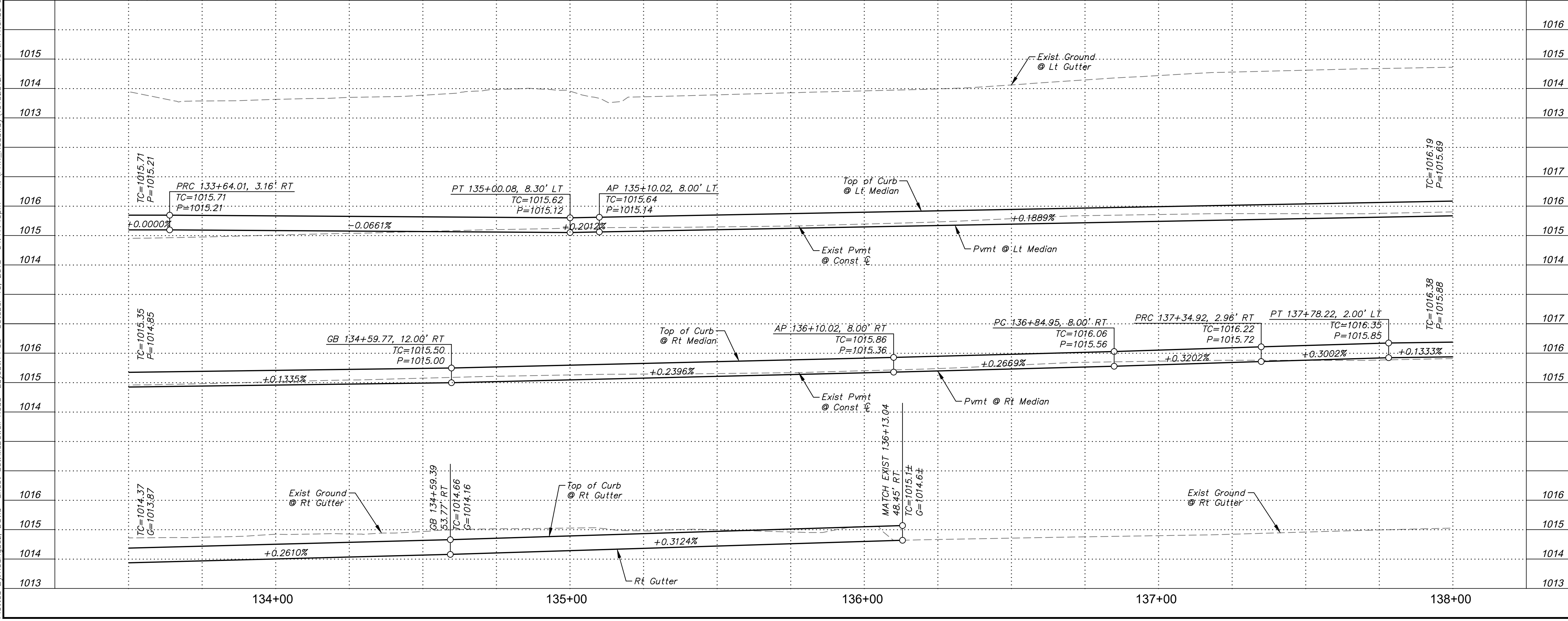
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 NOT FOR CONSTRUCTION
 ORIGINAL PLAN DATE
10-5-2018
 LATEST REVISION DATE
 - - -
 SHEET NUMBER
14 OF 84
 PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Sheet: Mc Dowell Road Layout: PP08 October 10, 2018 04:17:46pm K:\PHX - Roadway\191323121 - 107th Avenue and McDowell Road\Cad\12 - Streets\Roadway\191323121 - PP08.dwg



REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	1,808 SY
2	1-1/2" Mill Exist Pavement	2,958 SY
3	Remove Exist Curb & Gutter	262 LF
5	Remove Exist Sidewalk	1,439 SF

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	1,201 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	2,958 SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	262 LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	902 LF
6	6' Concrete Sidewalk Per MAG Dtl 230	1,516 SF
11	Survey Marker Per MAG Dtl 120, Type 'B'	1 EA
12	Median Concrete Pavers, See DWG LS08 for Details	-
18	Concrete Bus Shelter, Per COA A1253-2	1 EA
19	Concrete Header (6")	5 LF
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	5 EA
26	Adjust Manhole Frame & Cover Per MAG Dtl 422	1 EA



SHEET NOTES		
1.	See DWG SM05 for Signing & Striping Plan.	
2.	See DWG SLO3 for Lighting Plan.	
3.	See DWG LS08 for Landscape Plan.	
S	Sawcut Existing Pavement	

SHEET NOTES	
1.	See DWG SM05 for Signing & Striping Plan.
2.	See DWG SLO3 for Lighting Plan.
3.	See DWG LS08 for Landscape Plan.
S	Sawcut Existing Pavement

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PP08
SHEET DWG:	1'-20"
DRAWING HORIZ:	1'-20"
SCALE(S):	VERT. 1'-2"

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PAVING PLAN & PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

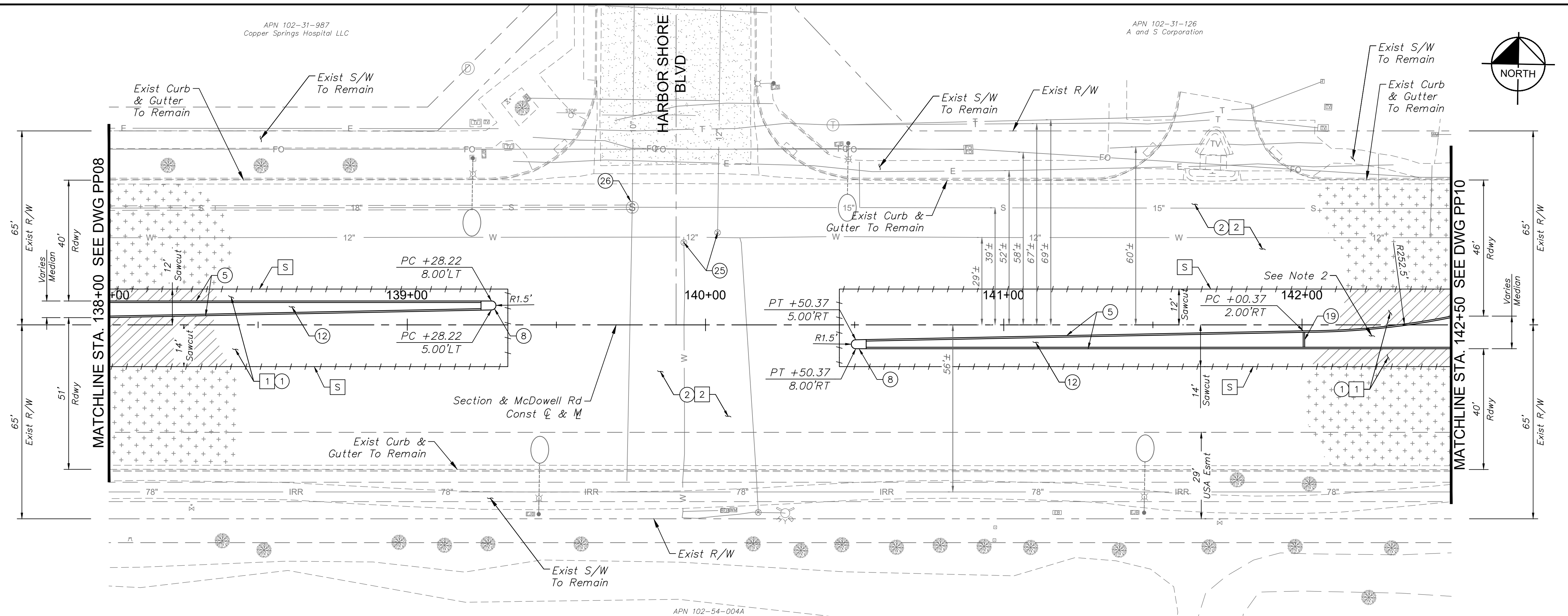
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
LATEST REVISION DATE
- - -

SHEET NUMBER
15 OF 84
PROJECT NUMBER
ST1224

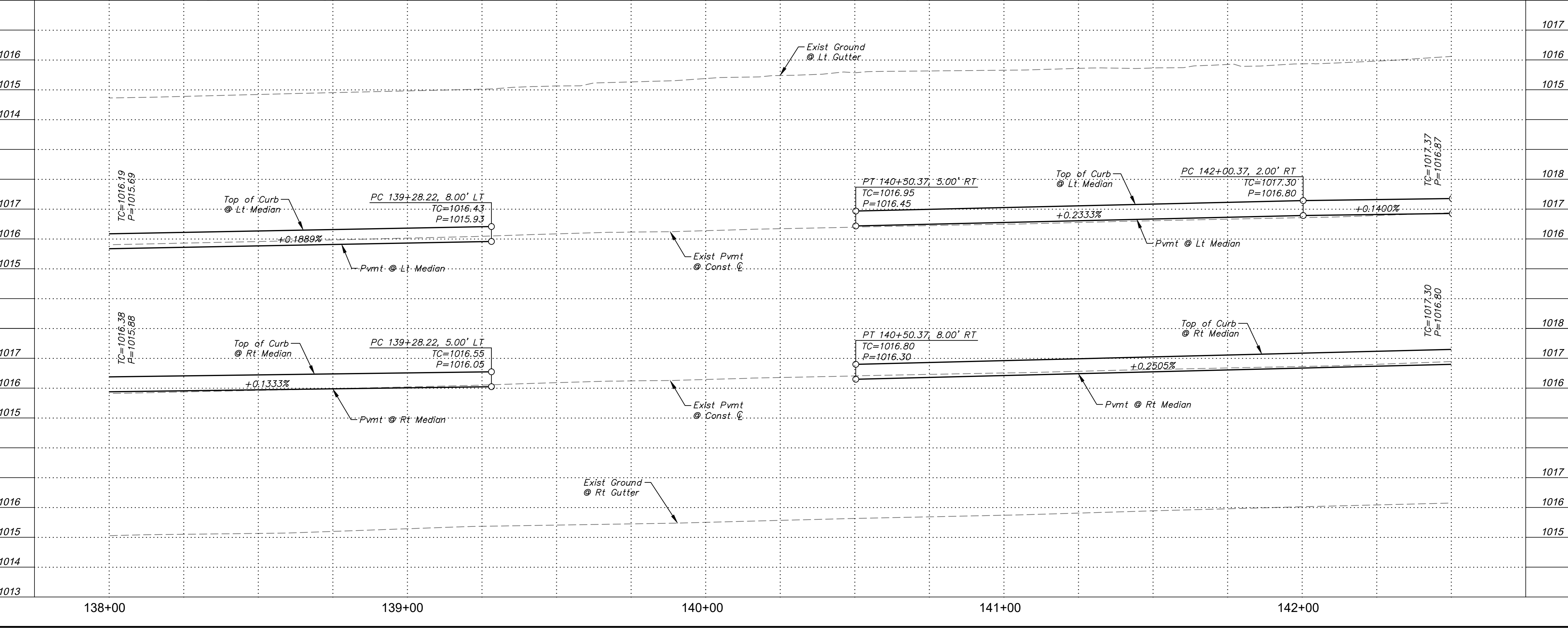


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REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	979 SY
2	1-1/2" Mill Exist Pavement	3,740 SY

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	800 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	3,740 SY
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	642 LF
8	End of Median Ramp, Per COA Dtl 1220	2 EA
12	Median Concrete Pavers, See DWG LS09 for Details	-
19	Concrete Header (6")	5 LF
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	2 EA
26	Adjust Manhole Frame & Cover Per MAG Dtl 422	1 EA



SHEET NOTES		
1.	See DWG SM06 for Signing & Striping Plan.	
2.	See DWG LS09 for Landscape Plan.	
[S]	Sawcut Existing Pavement	

SHEET TYPE: PAVING PLAN & PROFILE
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224
 PRELIMINARY
60%
 NOT FOR CONSTRUCTION
 ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE: -
 SHEET NUMBER: 16 OF 84
 PROJECT NUMBER: ST1224

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 Phoenix, Arizona 85020 (602) 944-5500

DRAWN BY: DJR
 DESIGNED BY: JDF
 CHECKED BY: KAC
 SHEET DWG: PP09
 DRAWING HORIZ: 1"=20'
 SCALE(S) VERT: 1"=2'



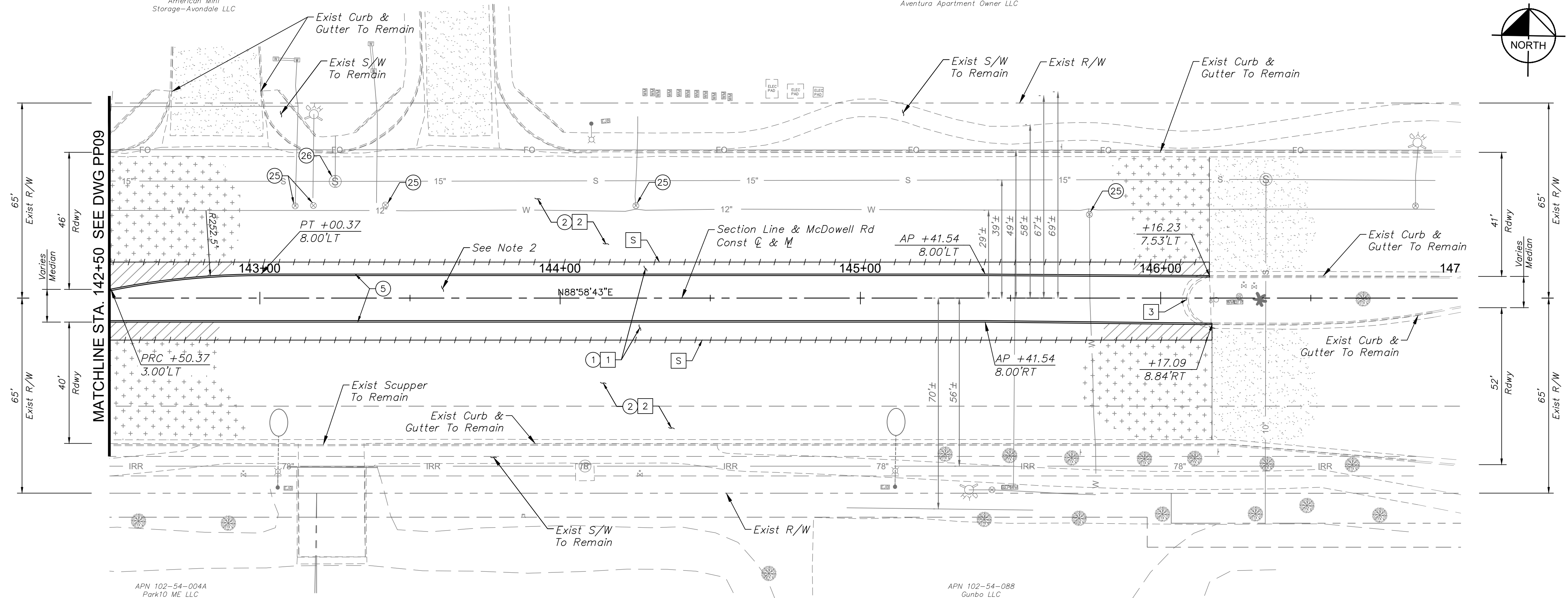
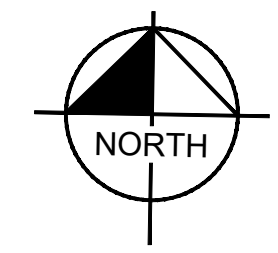
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APN 102-31-127
American Mini
Storage-Avondale LLC

APN 102-31-979
Aventura Apartment Owner LLC

APN 102-54-004A
Park10 ME LLC

APN 102-54-088
Gunbo LLC



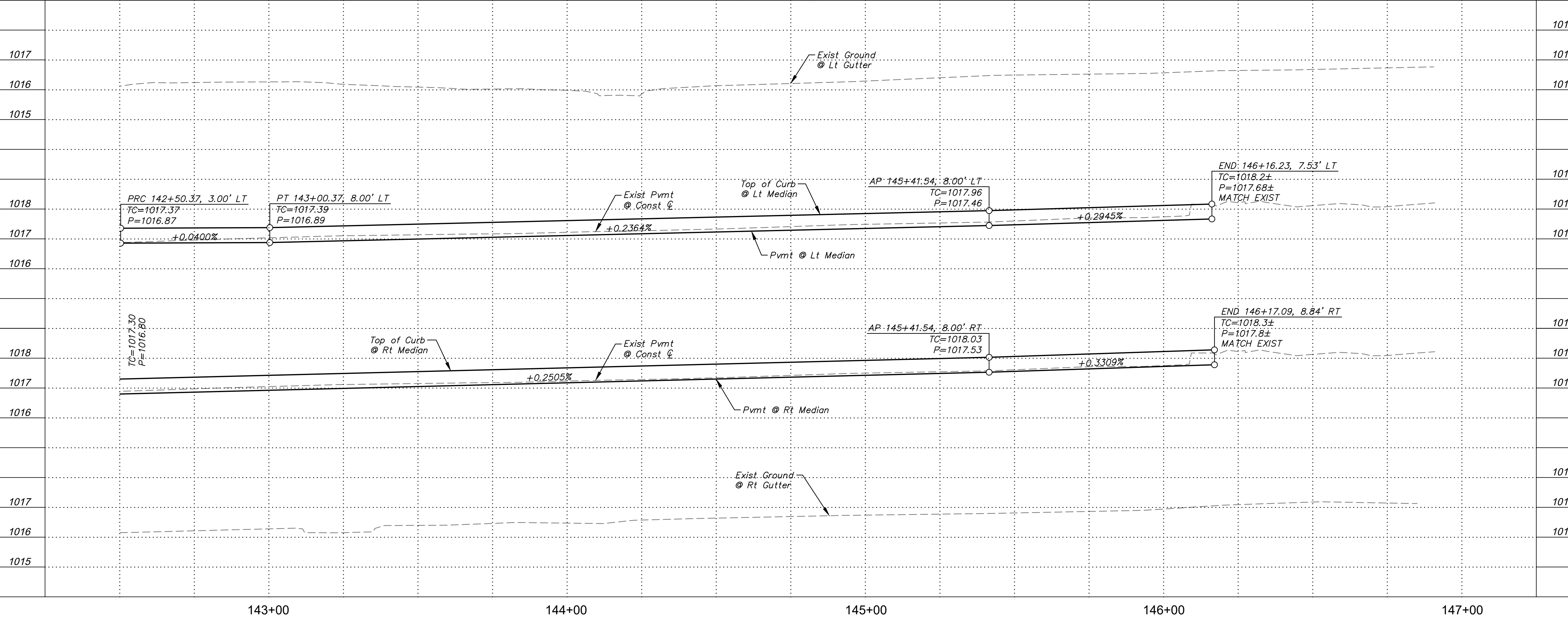
REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	1,044 SY
2	1-1/2" Mill Exist Pavement	2,782 SY
3	Remove Exist Curb & Gutter	26 LF

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	413 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	2,782 SY
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	734 LF
25	Adjust Valve Box & Cover, Per MAG Dtl 391-1, Type 'A'	5 EA
26	Adjust Manhole Frame & Cover Per MAG Dtl 422	1 EA

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	KAC
SHEET DWG:	PP10
DRAWING HORZ:	1"=20'
SCALE(V) VERT:	1"=2'

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SHEET TYPE: PAVING PLAN & PROFILE
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224



SHEET NOTES	
1.	See DWG SM06 for Signing & Striping Plan.
2.	See DWG LS10 for Landscape Plan.

[S] Sawcut Existing Pavement



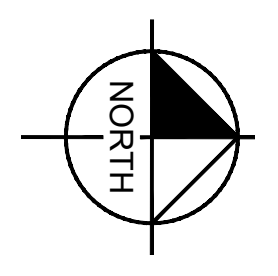
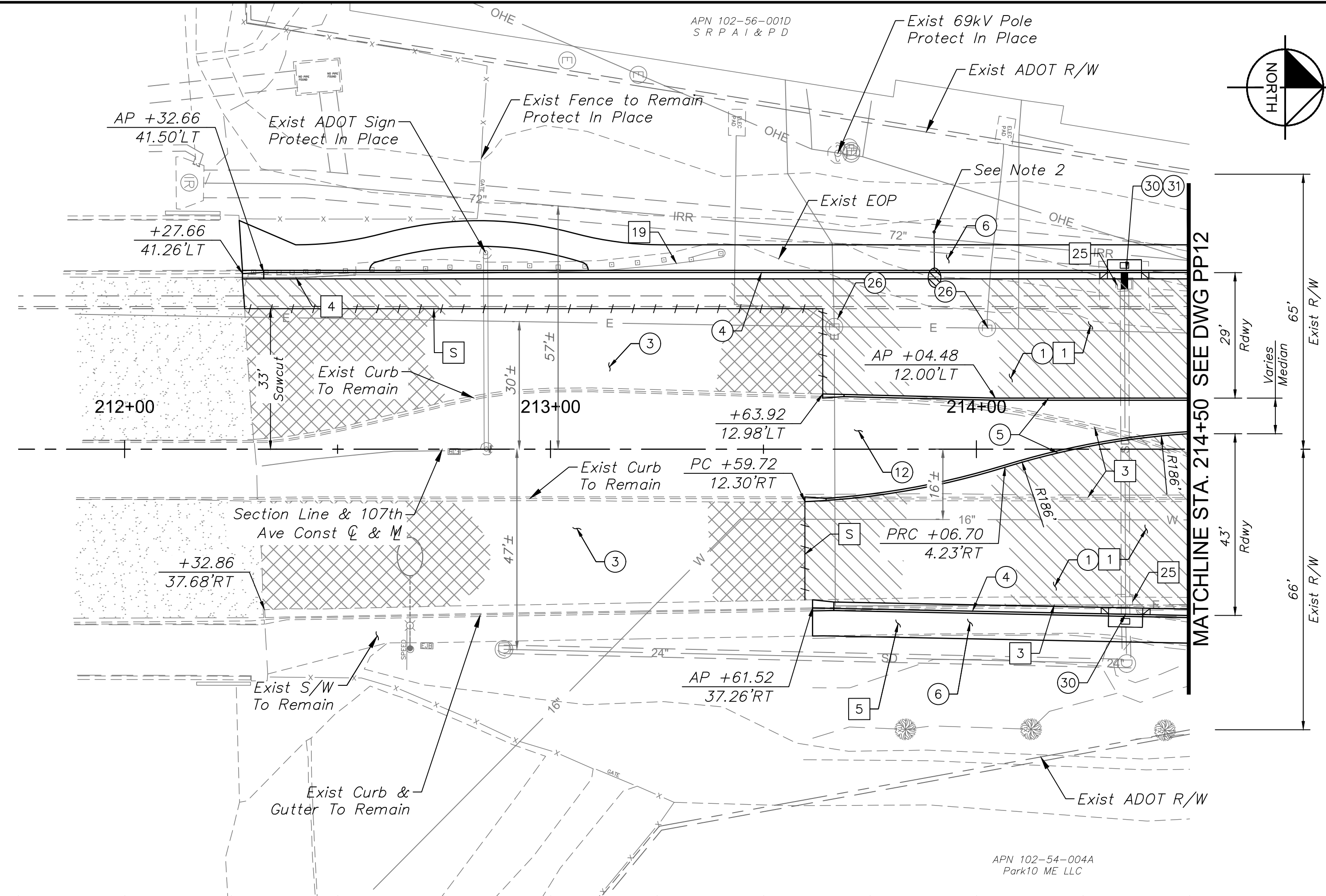
PRELIMINARY
60%
NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
17 OF 84

PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Sheet Set: McDowell Road Layout: PP11 October 10, 2018 04:19:14pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Coord\12-Sheets\Roadway\191323121-PP11.dwg



REMOVAL & RELOCATION NOTES			
NO.	DESCRIPTION	QTY	UNIT
1	Remove Exist AC Pavement	626	SY
3	Remove Exist Curb & Gutter	267	LF
4	Exist Single Curb	25	LF
5	Remove Exist Sidewalk	528	SF
19	Remove Exist Guardrail	113	LF
25	Remove Exist Storm Inlet Structure	2	EA

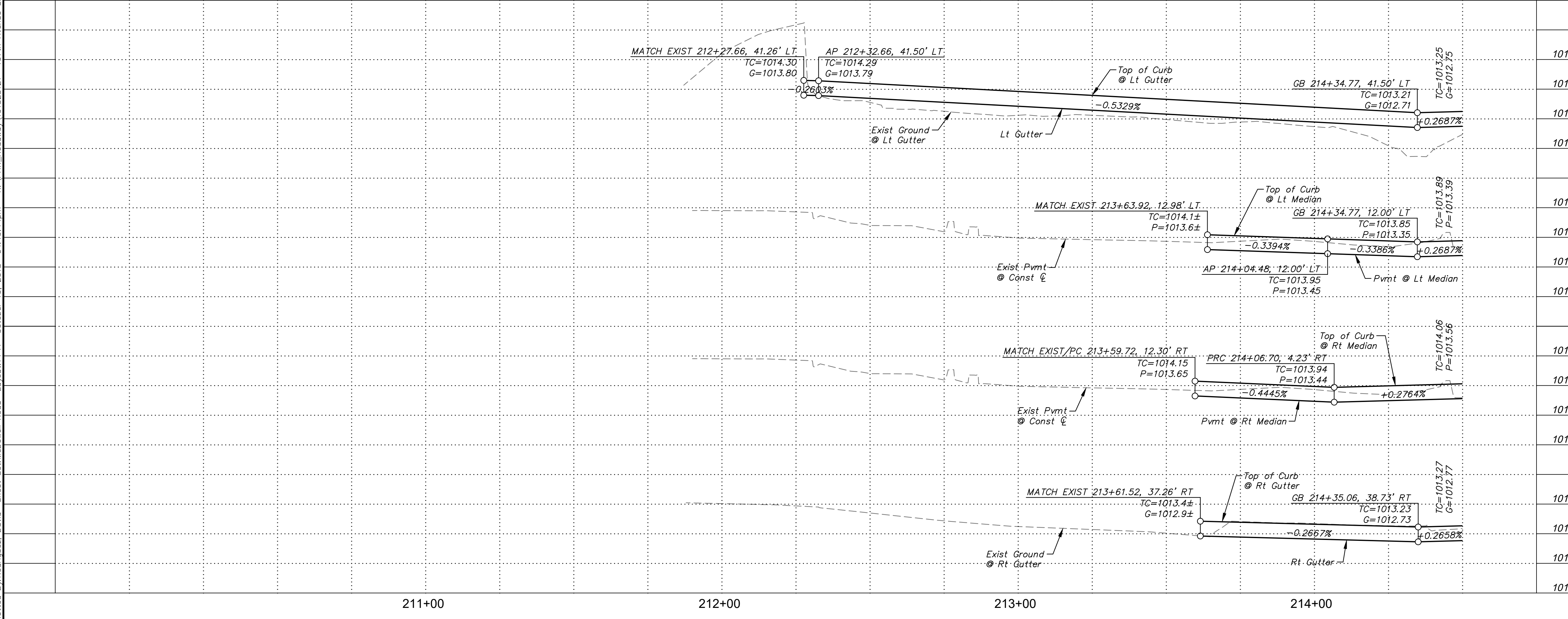
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NO.	DESCRIPTION	QTY	UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	693	SY
3	AC Pavement Per Structural Section No. 3, See DWG TX01	675	SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	311	LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	178	LF
6	6' Concrete Sidewalk Per MAG Dtl 230	1,927	SF
12	Median Concrete Pavers, See DWG LS11 for Details	-	-
26	Adjust Manhole Frame & Cover Per MAG Dtl 422	2	EA
30	Catch Basin Per MAG Dtl 532	2	EA
31	24" RGRCP Storm Drain, Class IV	5	LF

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PP11
SHEET DWG:	1'-20"
DRAWING HORIZ:	1'-20"
SCALE(S) VERT:	1'-2"

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PAVING PLAN & PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
 SHEET NUMBER
ST1224

SHEET NOTES	
1.	See DWG SM07 for Signing & Striping Plan.
2.	See DWG SL04 for Lighting Plan.
S	Sawcut Existing Pavement



PRELIMINARY
60%
 NOT FOR CONSTRUCTION

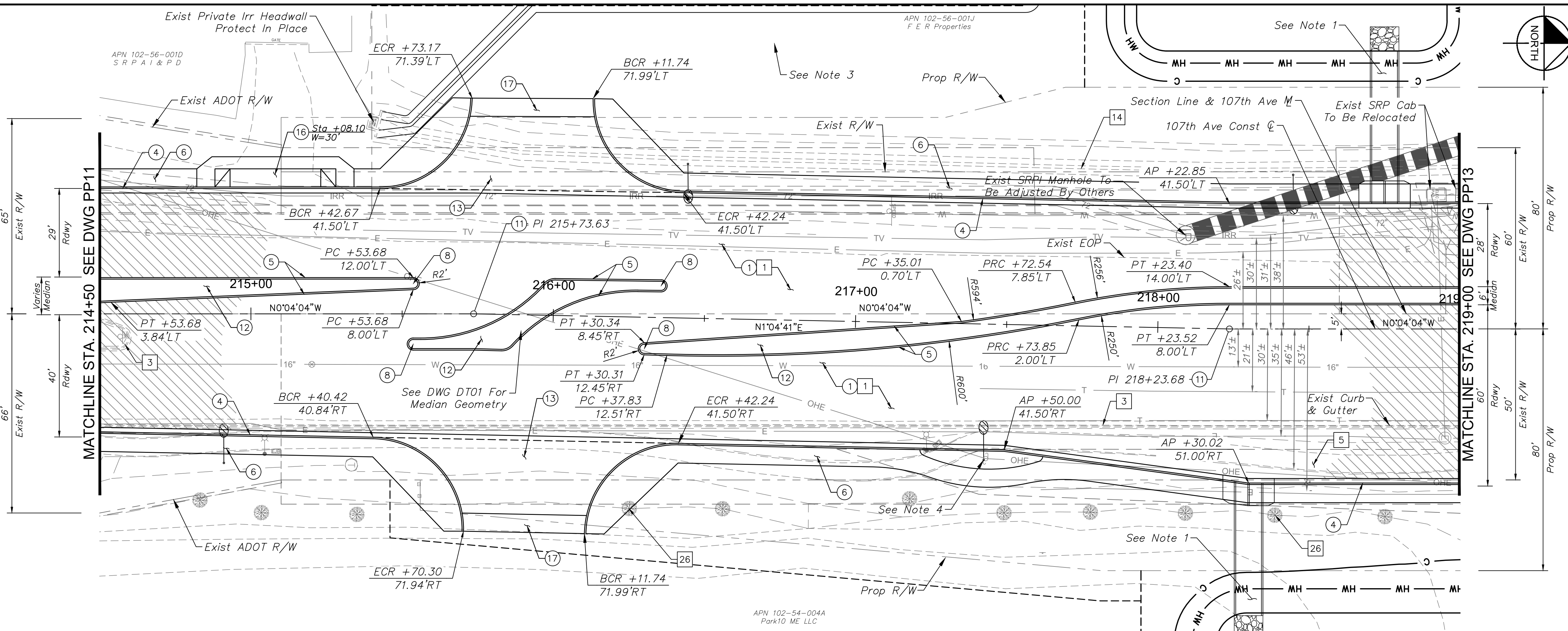
ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
 - - -

SHEET NUMBER
18 OF 84

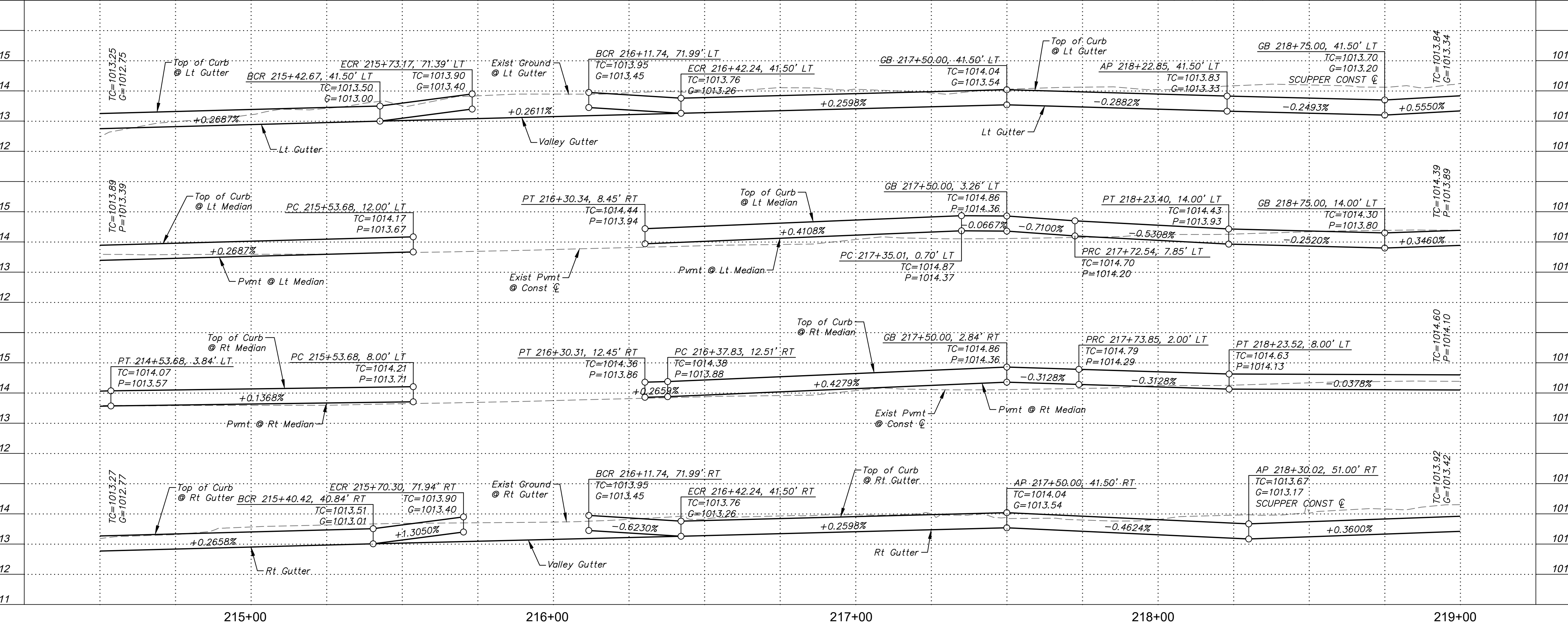
PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Sheet: McDowell Road Layout: PP12 October 10, 2018 04:19:41pm K:\PHX - Roadwork\191323121 - 107th Avenue and McDowell Road Const\12-Sheets\Roadwork\191323121-PP12.dwg



REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	2,819 SY
3	Remove Exist Curb & Gutter	473 LF
5	Remove Exist Sidewalk	2,625 SF
14	Remove Exist Conc. Irrigation Ditch, See DWG PI01	-
26	Remove Exist Tree	2 EA

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	3,773 SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	890 LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	943 LF
6	6' Concrete Sidewalk Per MAG Dtl 230	5,570 SF
8	End of Median Ramp, Per COA Dtl 1220	4 EA
11	Survey Marker Per MAG Dtl 120, Type 'B'	2 EA
12	Median Concrete Pavers, See DWG LS12 for Details	-
13	Portland Cement Concrete Pavement, 9" Thick	340 SY
16	Concrete Driveway Per COA Dtl A1250-1	500 SF
17	Concrete Driveway Per COA Dtl A1251-1	485 SF



SHEET NOTES		
1.	See DWG RB03 & RB04 for Drainage Plan	
2.	See DWG SM07 for Signing & Striping Plan.	
3.	See DWG PI01 for Private Irrigation Plan.	
4.	See DWG SL04 for Lighting Plan.	
5.	Sawcut Existing Pavement	

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DRAWN BY: DJR
 DESIGNED BY: JDF
 CHECKED BY: KAC
 SHEET DWG: PP12
 DRAWING HORIZ: 1"=20'
 SCALE(S) VERT: 1"=2'

PAVING PLAN & PROFILE
 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 SHEET NUMBER
ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
 - - -

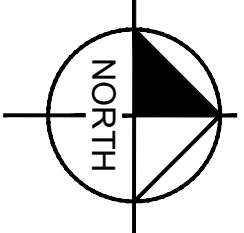
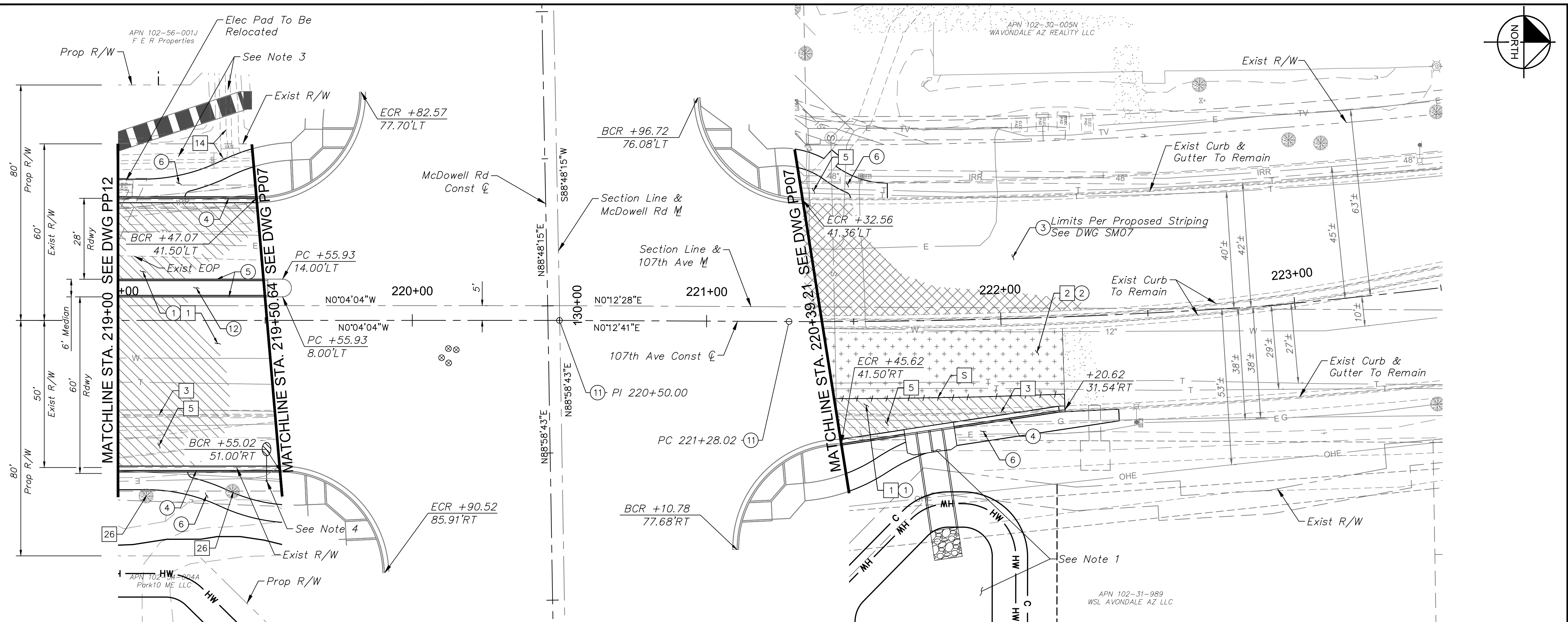
SHEET NUMBER
19 OF 84

PROJECT NUMBER
ST1224

Call at least two full working days before you begin construction.

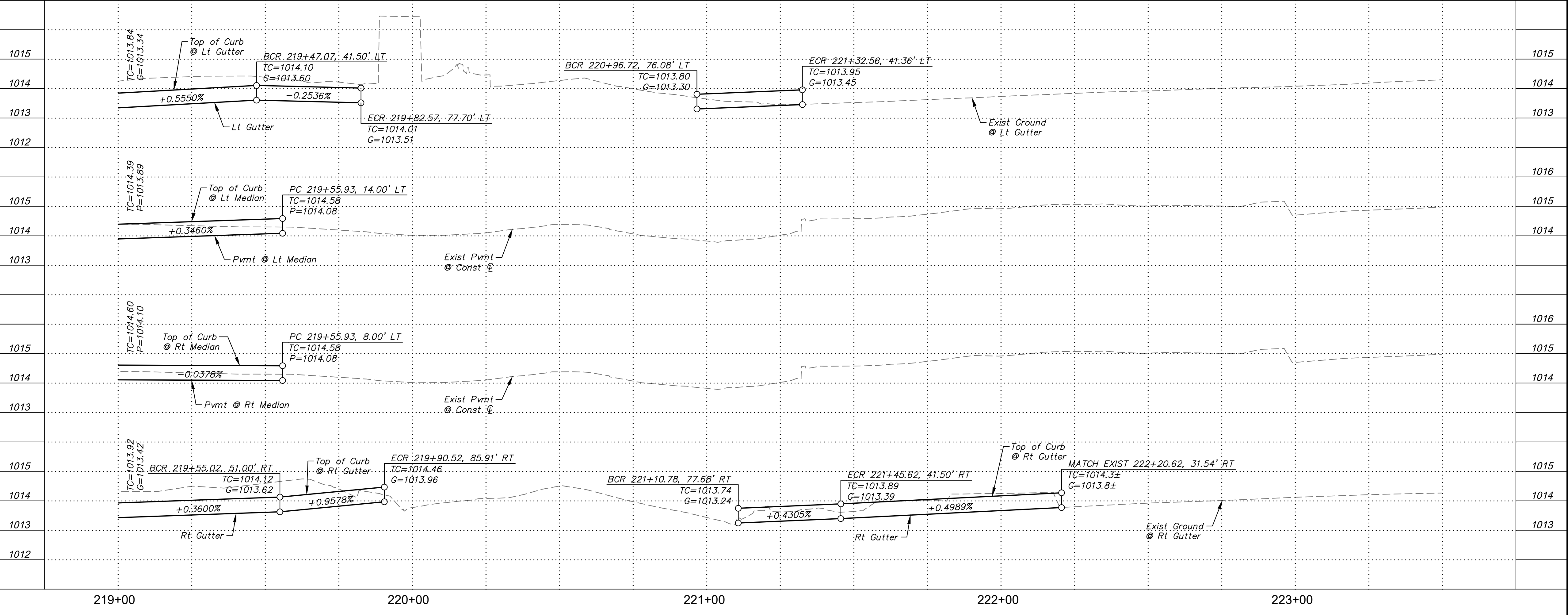
Arizona 311
 In Maricopa County: (602) 255-1100

Plotted By: Rodriguez, David Street: McDowell Road Layout: PP13 October 10, 2018 04:20:25pm K:\PHX - Roadway\191323121 - 107th Avenue and McDowell Road\Card\12 - Streets\Roadway\191323121 - PP13.dwg



REMOVAL & RELOCATION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Remove Exist AC Pavement	328 SY
2	1-1/2" Mill Exist Pavement	199 SY
3	Remove Exist Curb & Gutter	131 LF
5	Remove Exist Sidewalk	774 SF
14	Remove Exist Conc. Irrigation Ditch, See DWG PI01	- -
26	Remove Exist Tree	2 EA

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
1	AC Pavement Per Structural Section No. 1, See DWG TX01	549 SY
2	AC Pavement Per Structural Section No. 2, See DWG TX01	199 SY
3	AC Pavement Per Structural Section No. 3, See DWG TX01	872 SY
4	Concrete Curb & Gutter Per MAG Dtl 220-1, Type 'A', H=6"	179 LF
5	Concrete Single Curb Per MAG Dtl 222, Type 'A', H=6"	100 LF
6	6' Concrete Sidewalk Per MAG Dtl 230	1,411 SF
11	Survey Marker Per MAG Dtl 120, Type 'B'	2 EA
19	Median Concrete Pavers, See DWG LS13 for Details	- -



- SHEET NOTES**
- See DWG RB05 for Drainage Plan
 - See DWG SM07 for Signing & Striping Plan.
 - See DWG PI01 for Private Irrigation Plan.
 - See DWG SL04 for Lighting Plan.

[S] Sawcut Existing Pavement



DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PP13
SHEET DWG:	1'-20"
DRAWING HORIZ:	1'-20"
SCALE(S) VERT:	1'-2"

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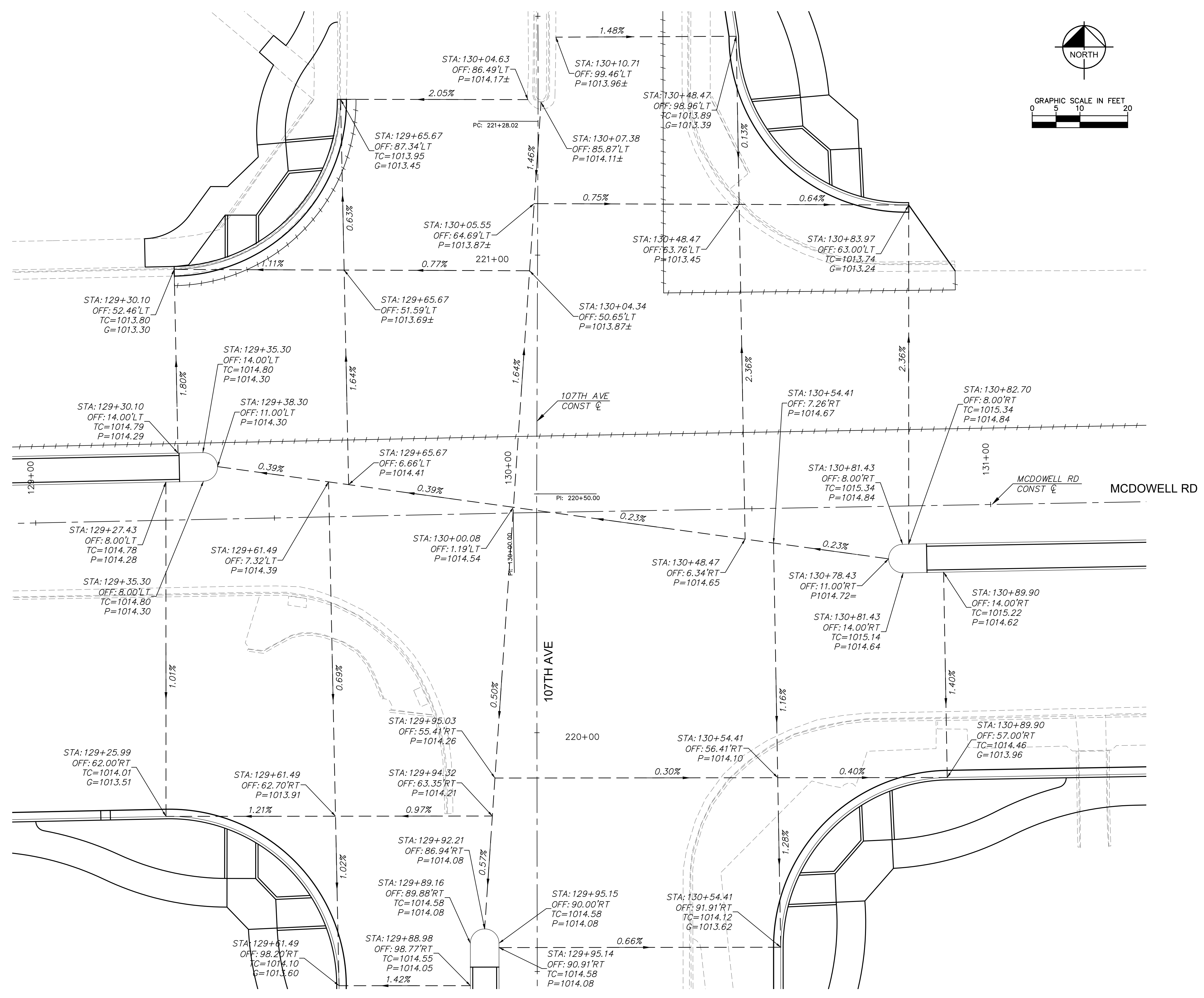
PAVING PLAN & PROFILE
 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 SHEET NUMBER
ST1224

PRELIMINARY
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 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
20 OF 84
 PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Sheet: Smt: McDowell Road Layout: SK01 October 10, 2018 04:20:50pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Card\12-Sheets\Roadway\191323121-SK01.dwg



DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	SK01
SHEET DWG:	1"=10'
DRAWING HORIZ:	N/A
SCALE(S) VERT:	N/A

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SHEET TYPE: INTERSECTION STAKING DIAGRAM
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

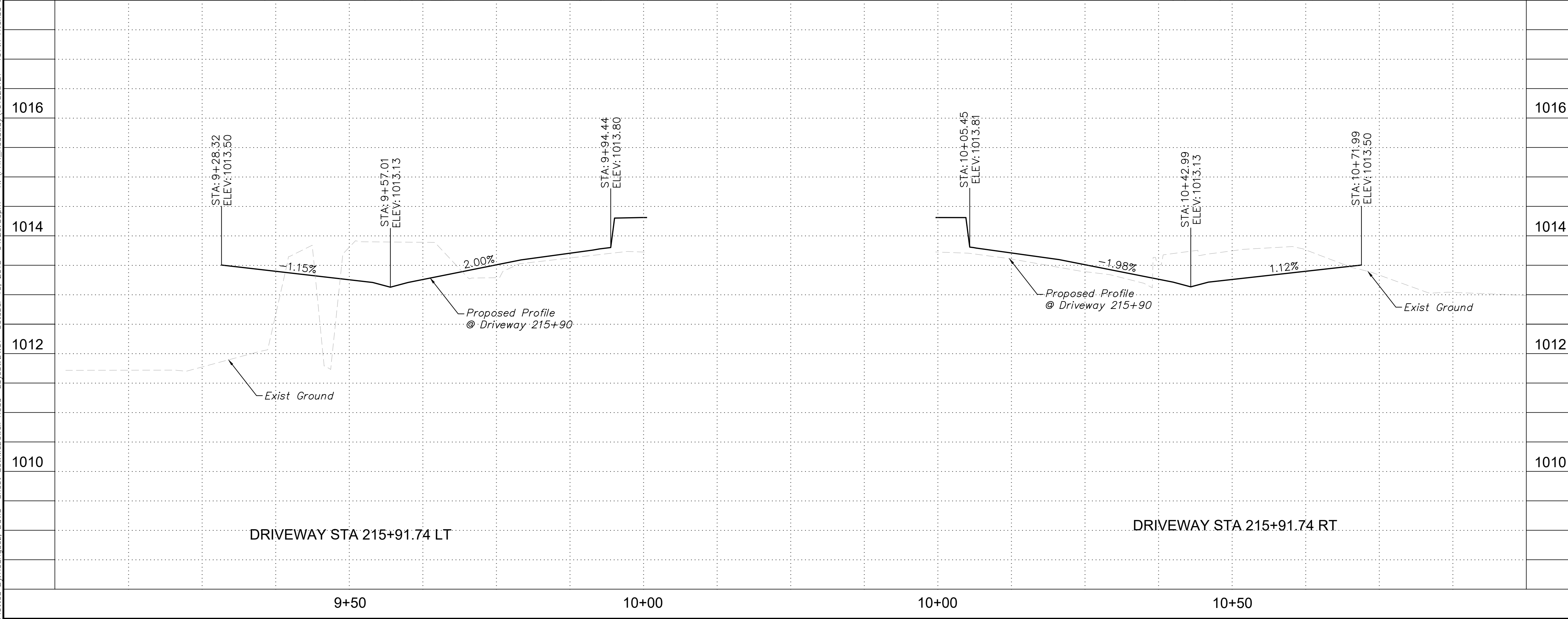
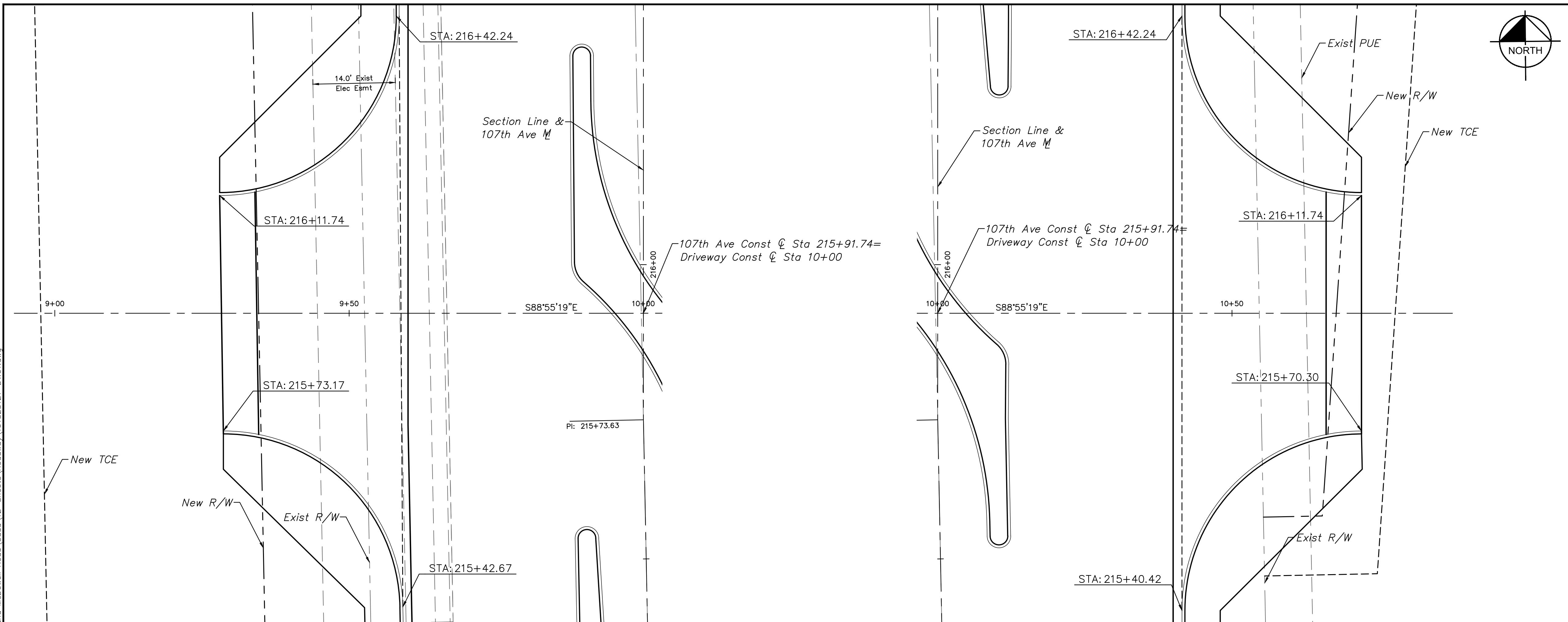
PRELIMINARY
60%
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ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE: - - -

SHEET NUMBER: 21 OF 84
 PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David Sheet: Mc Dowell Road Layout: DW01 October 10, 2018 04:20:50pm K:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road\Cadd\12-Sheets\Roadway\191323121-DW01.dwg



DRAWN BY:	DLR
DESIGNED BY:	JDF
CHECKED BY:	KAC
SHEET DWG:	DW01
DRAWING HORIZ. SCALE:	1"=10'
DRAWING VERT. SCALE:	1"=1'

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SHEET TYPE: DRIVEWAY DETAIL SHEET
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

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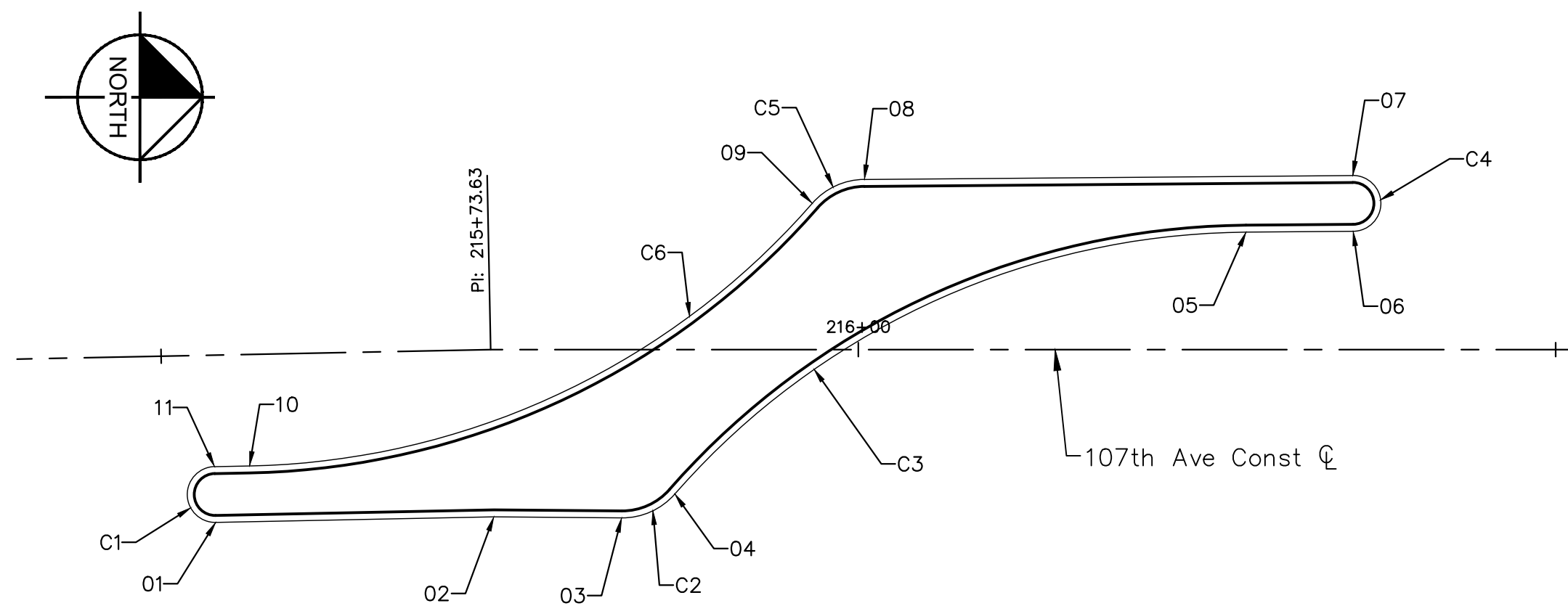
ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE: - - -

SHEET NUMBER: 22 OF 84
 PROJECT NUMBER: ST1224

Plotted By: Rodriguez, David - Sheet Set: McDowell Road - Layout: DT01 - October 10, 2018 04:29:47pm - k:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road - Card 12 - Sheets\Roadway\191323121 - DT01.dwg

MEDIAN GEOMETRY TABLE					
POINT	STATION	OFFSET FT	LOCATION/IFT	ELEVATION (PVM)	DESCRIPTION
01	215+53.68	12.00	RT	1013.67	PT
02	215+73.87	12.00	RT	1013.72	AP
03	215+83.03	12.07	RT	1013.74	PC
04	215+86.84	10.36	RT	1013.79	PRC
05	216+27.80	8.43	LT	1013.93	PT
06	216+35.48	8.49	LT	1013.95	PC
07	216+35.45	12.49	LT	1013.87	PC
08	216+00.43	12.21	LT	1013.79	PT
09	215+96.70	10.50	LT	1013.81	PRC
10	215+56.18	8.00	RT	1013.76	PC
11	215+53.68	8.00	RT	1013.75	PT

CURVE TABLE		
CURVE	RADIUS	LENGTH
C1	2.00'	6.28'
C2	5.00'	4.30'
C3	55.00'	46.44'
C4	2.00'	6.28'
C5	5.00'	4.23'
C6	55.00'	45.86'



Median Island Geometry

DRAWN BY:	DLR
DESIGNED BY:	JDF
CHECKED BY:	KAC
SHEET DWG:	DT01
DRAWING HORIZ SCALE:	1"=20'
DRAWING VERT SCALE:	1"=2'

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SHEET TYPE:	ROADWAY DETAILS
PROJECT NAME:	107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER:	ST1224

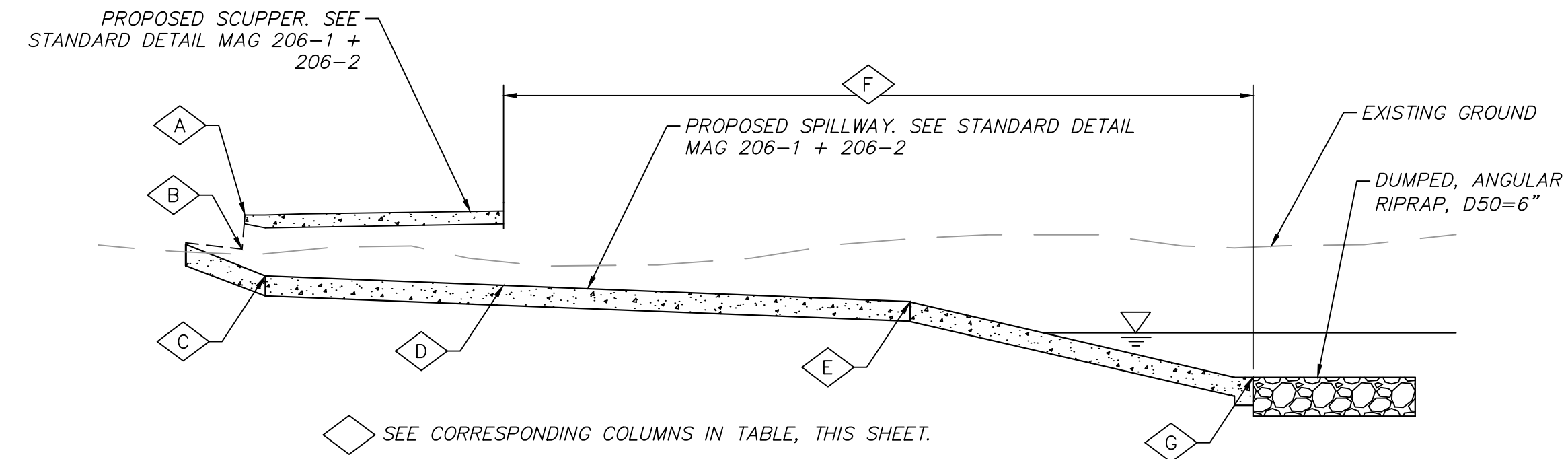
PRELIMINARY
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 NOT FOR
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ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
 - - -
 SHEET NUMBER
23 OF 84
 PROJECT NUMBER
ST1224



Plotted By: Rodriquez, David Sheet Set: McDowell Road Layout: DR01 October 10, 2018 04:20:59pm K:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road\Cadd\12-Streets\Drainage\191323121-DR01.dwg



SCUPPER/SPILLWAY PROFILE
NTS

SCUPPER STATION	NO. OF CURB OPENINGS	T/C ELEV	GUTTER ELEV	SCUPPER LIP ELEV	SPILLWAY START STA/OFF	SPILLWAY START ELEV	VERTICAL SPILLWAY BREAK STA/OFF	VERTICAL SPILLWAY BREAK ELEV	TOTAL SPILLWAY LENGTH	SPILLWAY END STA/OFF	SPILLWAY END ELEV
		A	B	C	D	D	E	E	F	G	G
105+25.00, 48.50' RT	3-4'	1008.03	1007.53	1007.11	105+25.00, 56.00' RT	1006.88	105+225.00, 65.00' RT	1006.57	17	105+25.00, 90.00' RT	1005.60
125+71.00, 51.63' RT	2-4'	1012.74	1012.24	1011.82	125+70.95, 59.13' RT	1011.59	125+70.89, 68.61' RT	1011.26	22	125+70.69, 98.62' RT	1010.00
132+35.00, 57.00' RT	3-4'	1014.08	1013.58	1013.16	132+35.00, 64.50' RT	1012.93	132+35.00, 80.00' RT	1012.40	32	132+35.00, 105.00' RT	1009.80
218+75.00, 41.50' LT	2-4'	1013.70	1013.20	1012.78	218+75.00, 49.00' LT	1012.55	218+75.00, 80.00' LT	1011.49	43	218+75.00, 110.00' LT	1010.00
218+30.02, 51.00' RT	2-4'	1013.67	1013.17	1012.75	218+30.02, 58.50' RT	1012.52	218+30.02, 80.00' RT	1011.78	36	218+30.02, 110.00' RT	1009.80
221+75.07, 37.26' RT	2-4'	1014.04	1013.54	1013.12	221+76.03, 44.70' RT	1012.89	221+76.03, 50.45' RT	1012.69	27	221+76.07, 100.33' RT	1010.50

SHEET NOTES

- See DWG PP01-PP13 for Roadway Plan & Profile.
- See DWG RB01-RB05 for Retention Basin Grading.

DRAWN BY:	KRW
DESIGNED BY:	SRJ
CHECKED BY:	ZRS
SHEET DWG:	DR01
DRAWING SCALE(S):	HORIZ. NONE
	VERT. NONE

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DRAINAGE DETAILS
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

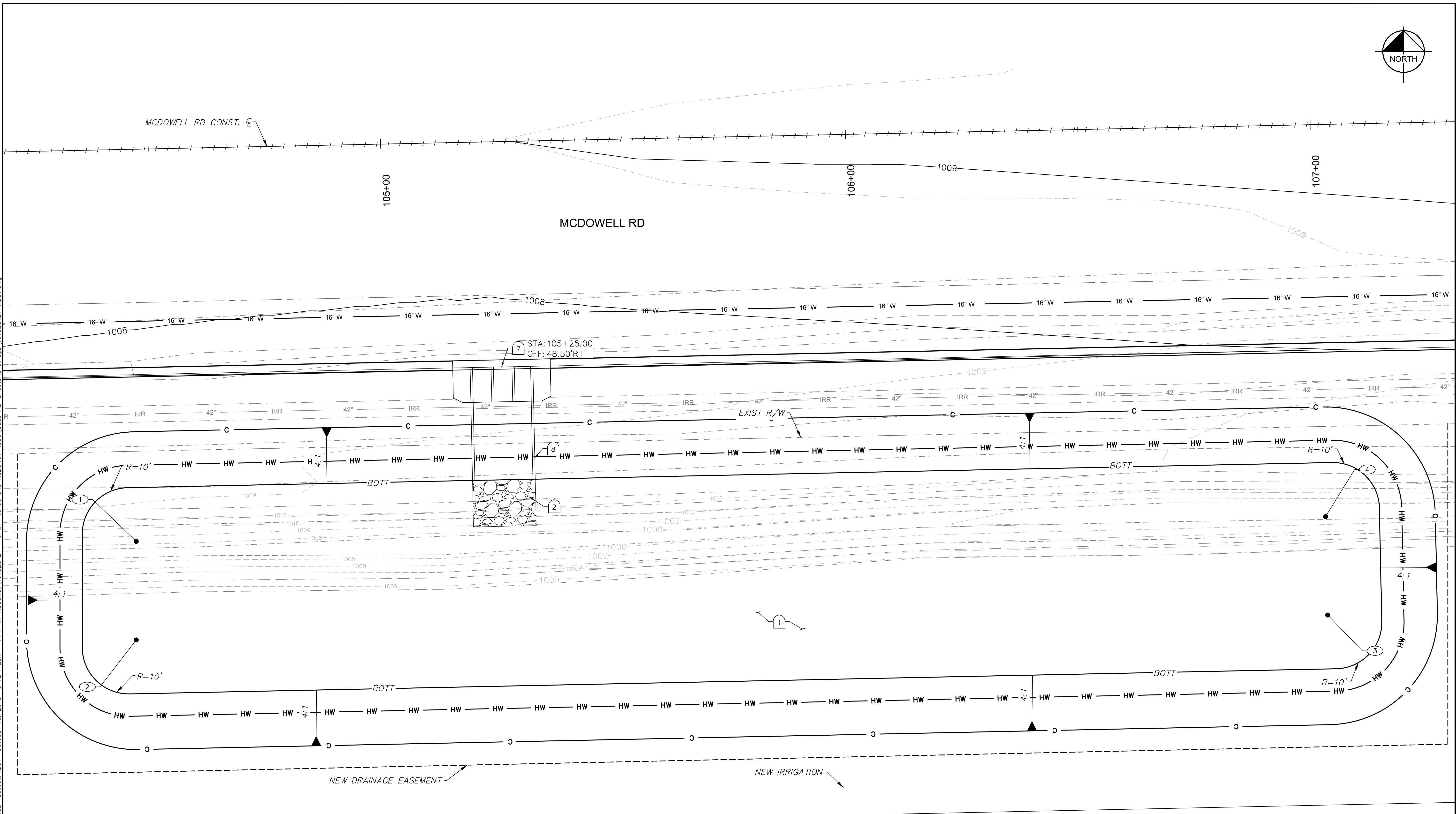
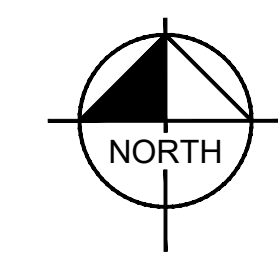
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
LATEST REVISION DATE

SHEET NUMBER
24 OF 84
PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Sheet Set: McDowell Road Layout: RB01 October 10, 2018 04:21:12pm K:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road Const\12-Sheets\Drainage\191323121-RB01.dwg



RETENTION BASIN TABLE			
NO.	STATION	OFFSET	ELEVATION
①	104+45.65	84.40' RT	1005.60
②	104+45.21	105.60' RT	1005.60
③	107+01.58	105.60' RT	1005.60
④	107+01.58	84.40' RT	1005.60

BASIN INFORMATION	
BOTT.	1005.60
HWE	1006.60
V _{REQ}	0.34 AC-FT
V _{PRO}	0.38 AC-FT

RB 105+25

DRAINAGE NOTES		
NO.	DESCRIPTION	QTY UNIT
①	Earthwork for Retention Basins	1900 CY
②	Dumped RipRap with Filter Fabric, D ₅₀ =6", T=12"	5 CY
⑦	Scupper Per MAG Dtl 206, 3-4' Curb Openings	1 EA
⑧	Concrete Spillway Per MAG Dtl 206, W=13'	17 LF

SHEET NOTES

- See DWG PP01 - PP13 for Roadway Plan & Profile.

GRAPHIC SCALE IN FEET
0 5 10 20

DRAWN BY:	KRW
DESIGNED BY:	SRJ
CHECKED BY:	ZRS
SHEET DWG:	RB01
DRAWING SCALE:	1" = 10'
VERT. SCALE:	NONE

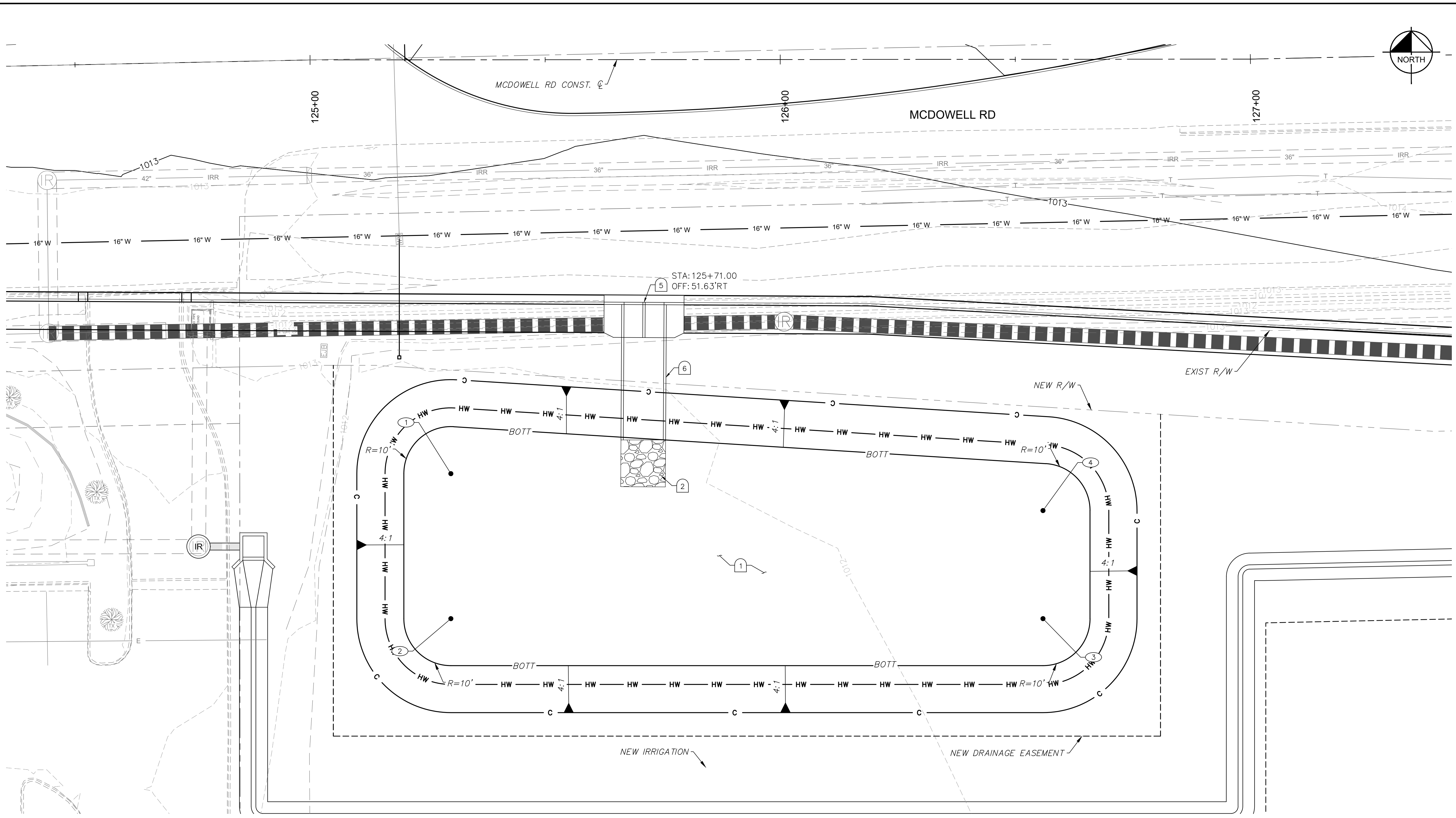
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RETENTION BASIN GRADING
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: - - -
SHEET NUMBER: 25 OF 84
PROJECT NUMBER: ST1224

Plotted By: Rodriguez, David Street: McDowell Road Layout: RB02 October 10, 2018 04:21:28pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Card\12-Streets\Drainage\191323121-RB02.dwg



RB 125+71

RETENTION BASIN TABLE			
NO.	STATION	OFFSET	ELEVATION
①	125+29.87	88.06' RT	1010.00
②	125+29.85	118.91' RT	1010.00
③	126+55.79	119.02' RT	1010.00
④	126+55.81	96.02' RT	1010.00

BASIN INFORMATION	
BOTT.	1010.00
HWE	1011.00
V _{REQ}	0.15 AC-FT
V _{PRO}	0.17 AC-FT

DRAINAGE NOTES		
NO.	DESCRIPTION	QTY UNIT
①	Earthwork for Retention Basins	820 CY
②	Dumped RipRap with Filter Fabric, D ₅₀ =6", T=12"	4 CY
⑤	Scupper Per MAG Dtl 206, 2-4' Curb Openings	1 EA
⑥	Concrete Spillway Per MAG Dtl 206, W=8.5'	22 LF

SHEET NOTES

- See DWG PP01 - PP13 for Roadway Plan & Profile.

GRAPHIC SCALE IN FEET
0 5 10 20

Call at least two full working days before you begin construction.
ARIZONA 31
Arizona State Drainage, Inc.
Dist 8-11 or 1-800-STAKE-IT (782-2548)
In Maricopa County: (602) 263-1100

DRAWN BY:	KRW
DESIGNED BY:	SRJ
CHECKED BY:	ZRS
SHEET DWG:	RB02
DRAWING SCALE:	1" = 10'
VERT. SCALE:	NONE

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RETENTION BASIN GRADING
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER
ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

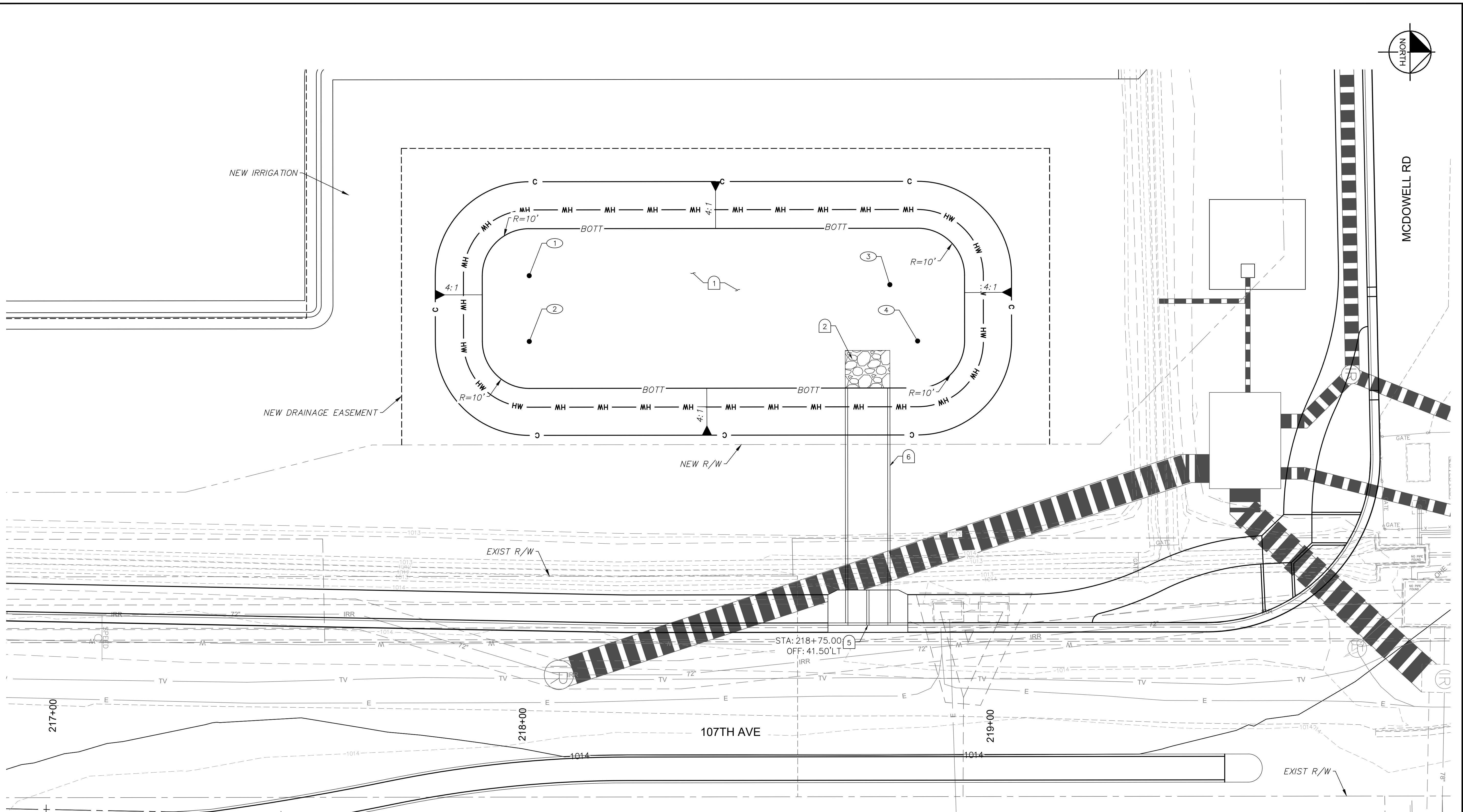
ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
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SHEET NUMBER
26 OF 84

PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Sheet: Sct: McDowell Road Layout: RE03 October 10, 2018 04:21:41pm K:\PHX_Roadwork\191323121_107th Avenue and McDowell Road\Cadd\12-Sheets\Drainage\191323121-RE03.dwg



RETENTION BASIN TABLE			
NO.	STATION	OFFSET	ELEVATION
①	218+00.68	115.56' LT	1010.00
②	218+00.96	101.57' LT	1010.00
③	218+85.66	116.00' LT	1010.00
④	218+85.66	102.00' LT	1010.00

BASIN INFORMATION	
BOTT.	1010.00
HWE	1011.00
V _{REQ}	0.06 AC-FT
V _{PRO}	0.09 AC-FT

RB 218+75

DRAINAGE NOTES		
NO.	DESCRIPTION	QTY UNIT
①	Earthwork for Retention Basins	460 CY
②	Dumped RipRap with Filter Fabric, D ₅₀ =6", T=12"	4 CY
⑤	Scupper Per MAG Dtl 206, 2-4' Curb Openings	1 EA
⑥	Concrete Spillway Per MAG Dtl 206, W=8.5'	4.3 LF

SHEET NOTES

- See DWG PP01 - PP13 for Roadway Plan & Profile.

GRAPHIC SCALE IN FEET
0 5 10 20

Call at least two full working days before you begin construction.
ARIZONA 311
Arizona Blue Book, Inc.
Dial 8-1-1 or 1-800-374-ETV (782-2548)
In Maricopa County: (602) 253-1100

DRAWN BY:	KRW
DESIGNED BY:	SRJ
CHECKED BY:	ZRS
SHEET DWG:	RB03
DRAWING HORIZ SCALE(S):	1" = 10'
VERT. SCALE(S):	NONE

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RETENTION BASIN GRADING
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER
ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

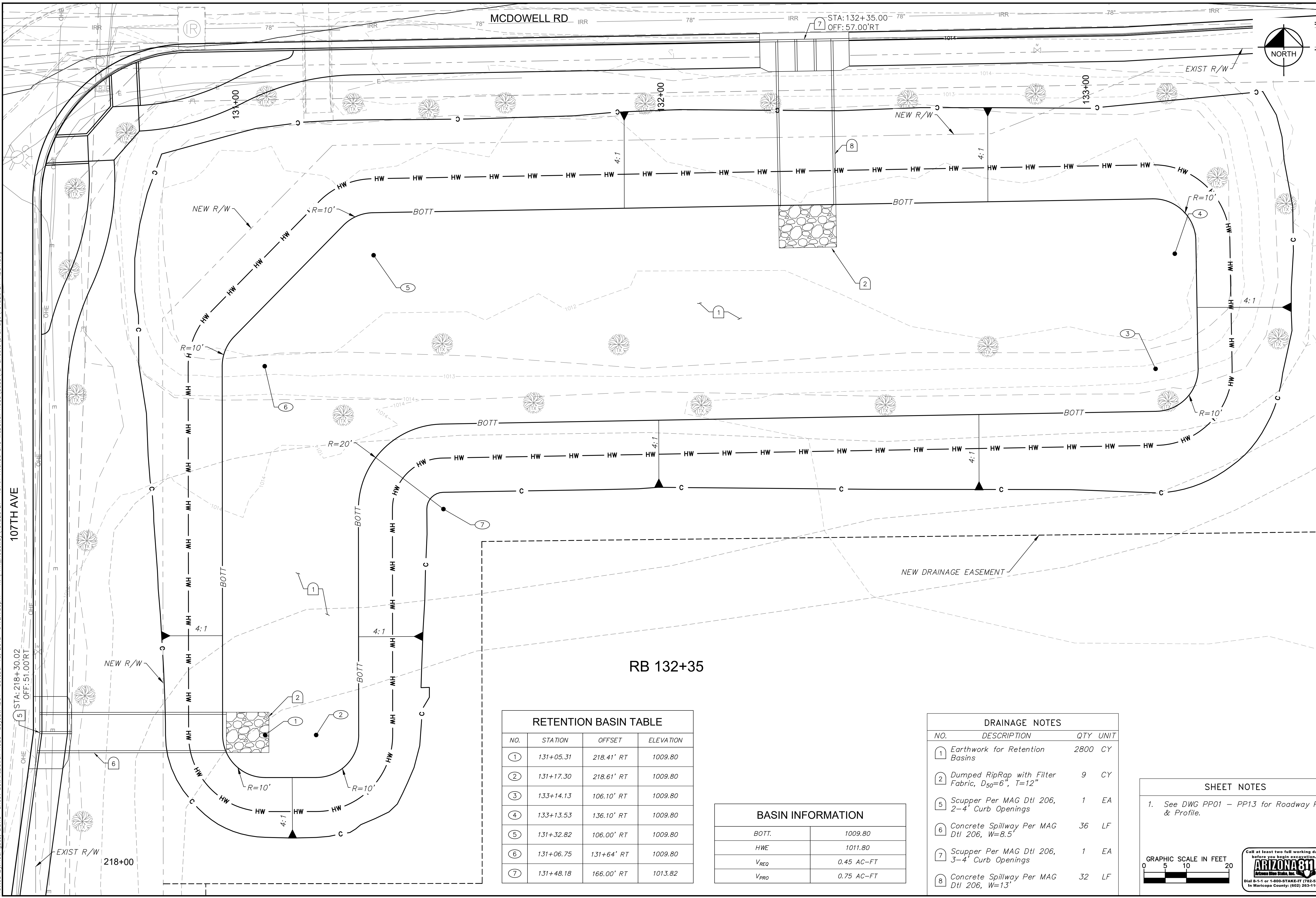
ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE

SHEET NUMBER
27 OF 84

PROJECT NUMBER
ST1224

Plotted By: Rodriquez, David Street: McDowell Road Layout: RB04 October 10, 2018 04:21:56pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Streets\Drainage\191323121-RB04.dwg



107TH AVE

MCDOWELL RD

RB 132+35

RETENTION BASIN TABLE			
NO.	STATION	OFFSET	ELEVATION
1	131+05.31	218.41' RT	1009.80
2	131+17.30	218.61' RT	1009.80
3	133+14.13	106.10' RT	1009.80
4	133+13.53	136.10' RT	1009.80
5	131+32.82	106.00' RT	1009.80
6	131+06.75	131+64' RT	1009.80
7	131+48.18	166.00' RT	1013.82

BASIN INFORMATION	
BOTT.	1009.80
HWE	1011.80
V _{REQ}	0.45 AC-FT
V _{PRO}	0.75 AC-FT

DRAINAGE NOTES		
NO.	DESCRIPTION	QTY UNIT
1	Earthwork for Retention Basins	2800 CY
2	Dumped RipRap with Filter Fabric, D ₅₀ =6", T=12"	9 CY
5	Scupper Per MAG Dtl 206, 2-4" Curb Openings	1 EA
6	Concrete Spillway Per MAG Dtl 206, W=8.5'	36 LF
7	Scupper Per MAG Dtl 206, 3-4" Curb Openings	1 EA
8	Concrete Spillway Per MAG Dtl 206, W=13'	32 LF

SHEET NOTES

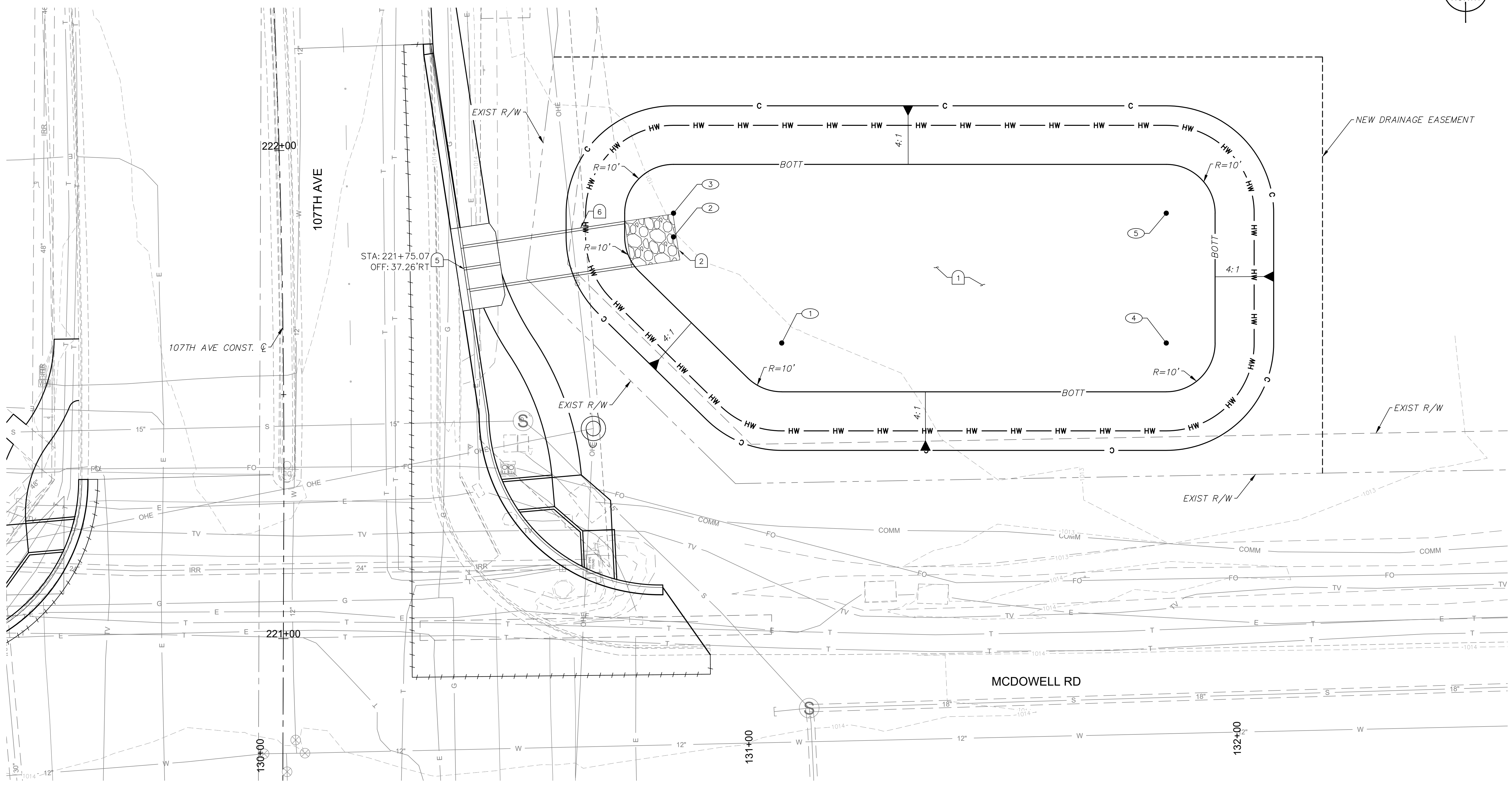
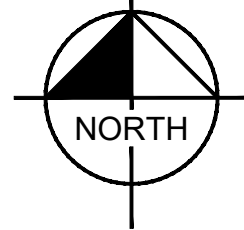
- See DWG PP01 - PP13 for Roadway Plan & Profile.

GRAPHIC SCALE IN FEET
0 5 10 20

Call at least two full working days before you begin construction.
ARIZONA 311
Dial 8-1-1 or 1-800-STAKE-IT (782-2548)
In Maricopa County: (602) 251-1100

DRAWN BY: KRW	DESIGNED BY: SRJ	CHECKED BY: ZRS	SHEET DWG: RB04	DRAWING HORIZ: 1" = 10'	SCALE(S) VERT: NONE
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RETENTION BASIN GRADING					
107TH AVENUE & MCDOWELL ROAD INTERSECTION					
PROJECT NUMBER: ST1224					
PRELIMINARY 60% NOT FOR CONSTRUCTION					
ORIGINAL PLAN DATE: 10-5-2018					
LATEST REVISION DATE: - - -					
SHEET NUMBER: 28 OF 84					
PROJECT NUMBER: ST1224					

Plotted By: Rodriguez, David Sheet: Sct: McDowell Road Layout: RB05 October 10, 2018 04:22:12pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12- Streets\Drainage\191323121-RB05.dwg



RETENTION BASIN TABLE			
NO.	STATION	OFFSET	ELEVATION
①	221+59.44	102.10' RT	1010.50
②	221+80.65	80.29' RT	1010.50
③	221+85.33	80.40' RT	1010.50
④	221+58.63	180.56' RT	1010.50
⑤	221+83.19	181.29' RT	1010.50

BASIN INFORMATION	
BOTT.	1010.50
HWE	1012.50
V _{REQ}	0.24 AC-FT
V _{PRO}	0.30 AC-FT

RB 221+75

DRAINAGE NOTES		
NO.	DESCRIPTION	QTY UNIT
①	Earthwork for Retention Basins	820 CY
②	Dumped RipRap with Filter Fabric, D ₅₀ =6", T=12"	4 CY
⑤	Scupper Per MAG Dtl 206, 2-4' Curb Openings	1 EA
⑥	Concrete Spillway Per MAG Dtl 206, W=8.5'	27 LF

SHEET NOTES

- See DWG PP01 - PP13 for Roadway Plan & Profile.

GRAPHIC SCALE IN FEET
0 5 10 20

Call at least two full working days before you begin construction.
ARIZONA 311
Arizona Blue Book, Inc.
Dist 8-11 or 1-800-STAKE-IT (782-2548)
In Maricopa County: (602) 251-1100

DRAWN BY:	KRW
DESIGNED BY:	SRJ
CHECKED BY:	ZRS
SHEET DWG:	RB05
DRAWING HORIZ SCALE:	1" = 10'
VERT. SCALE:	NONE

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RETENTION BASIN GRADING
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER
ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE

SHEET NUMBER
29 OF 84





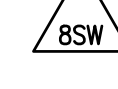
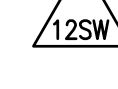
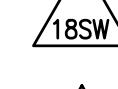
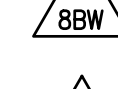
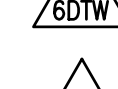




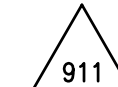

PROJECT NUMBER
ST1224

SIGNING AND STRIPING GENERAL PLAN NOTES (AUGUST 2008)

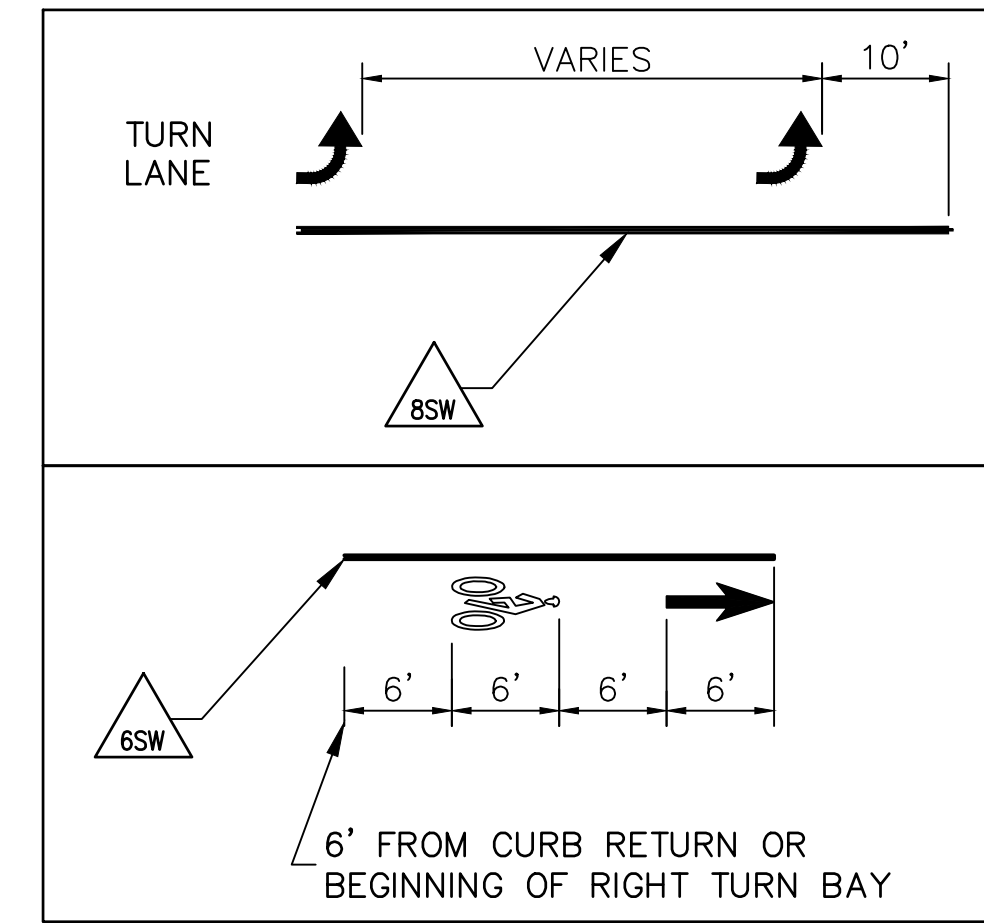
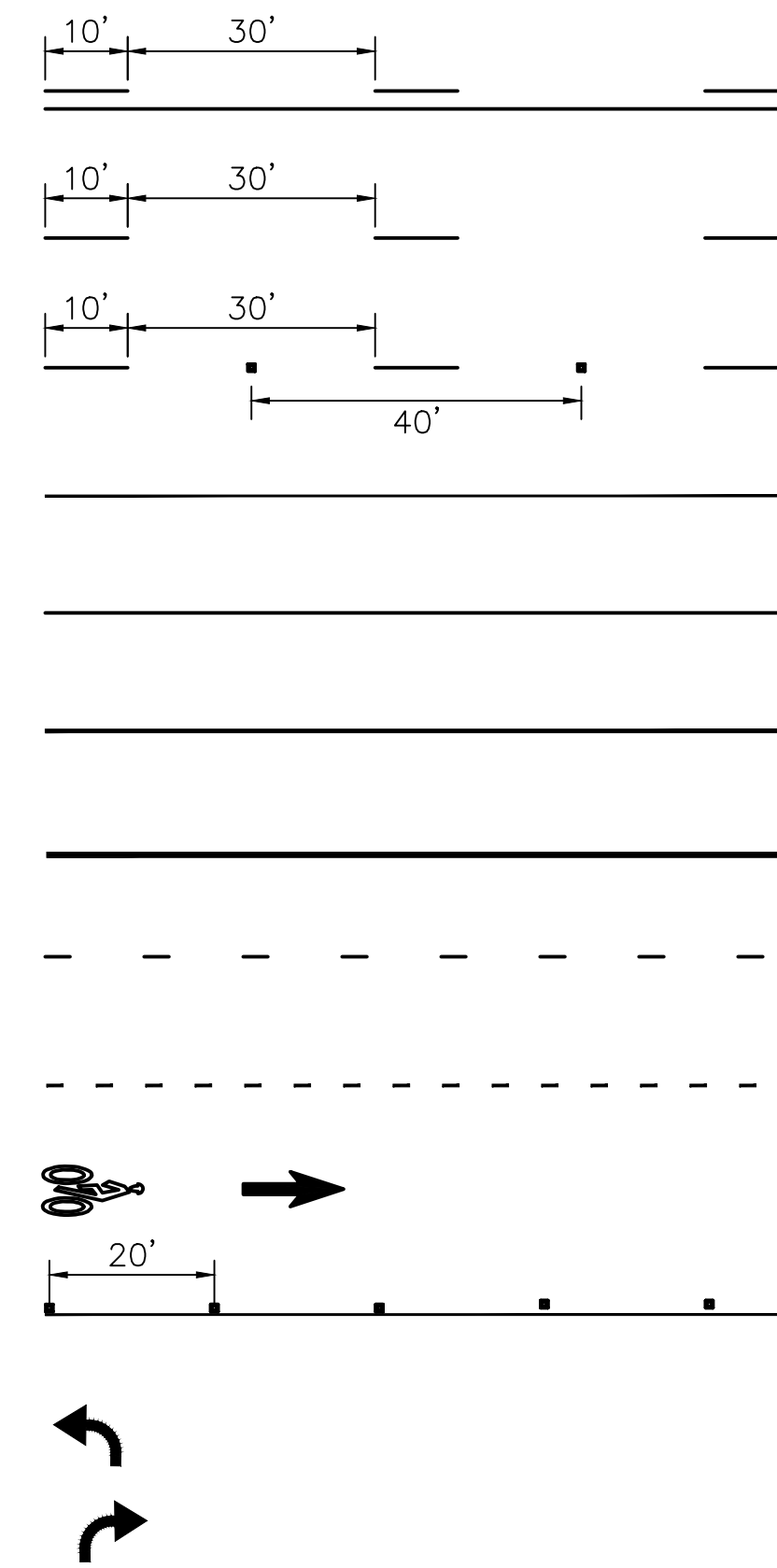
1. THE CITY OF AVONDALE ENGINEERING DEPARTMENT SHALL BE NOTIFIED THREE (3) BUSINESS DAYS PRIOR TO STARTING ANY SIGNING OR STRIPING WORK.
2. UNLESS OTHERWISE SPECIFIED, ALL PAVEMENT MARKINGS AND TRAFFIC CONTROL SIGNING INSTALLATIONS AND REMOVALS SHALL CONFORM TO THE REQUIREMENTS SET FORTH IN THE CITY OF AVONDALE SUPPLEMENT TO MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION. ITEMS NOT COVERED UNDER THE CITY SPECIFICATIONS SHALL CONFORM TO ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) STANDARD DRAWINGS, DETAILS AND SPECIFICATIONS, THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" (MUTCD) LATEST ADOPTED EDITION, AND ARIZONA SUPPLEMENT AS APPLICABLE. SIGN REQUIREMENTS, GUIDELINES AND WARRANTIES SHALL BE IN ACCORDANCE WITH THE MUTCD MOST RECENT EDITION.
3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF THE PERMANENT PAVEMENT MARKINGS FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE STRIPED. PAVEMENT MARKING DIMENSIONS ARE TO CENTER OF THE STRIPE FOR SINGLE LINE STRIPING, AND TO CENTER OF THE SPACE BETWEEN THE TWO LINES FOR DOUBLE LINE STRIPING. WHERE CURB AND GUTTER IS PRESENT, DIMENSIONS ARE TO THE FACE OF CURB UNLESS NOTED OTHERWISE. THE CONTRACTOR SHALL SCHEDULE INSPECTION OF THE PAVEMENT MARKING LAYOUT AT LEAST THREE (3) BUSINESS DAYS PRIOR TO LAYOUT AND INSTALLATION OF PERMANENT PAVEMENT MARKINGS. INSPECTIONS SHALL TAKE PLACE DURING DAYTIME AND ON A BUSINESS DAY PRIOR TO INSTALLATION OF PERMANENT PAVEMENT MARKINGS.
4. PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY AND NOT TO SCALE. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, NOTES, DETAILS AND STANDARDS WHEN INSTALLING PAVEMENT STRIPING, MARKINGS AND MARKERS.
5. TEMPORARY TRAFFIC CONTROL SHALL CONFORM TO THE MOST RECENT EDITION OF CITY OF PHOENIX "TRAFFIC BARRICADE MANUAL", THE "MUTCD," AND/OR AS DIRECTED BY THE CITY OF AVONDALE.
6. UNLESS OTHERWISE DIRECTED, ALL FINAL LOCATION LANE STRIPING INCLUDING CROSSWALKS AND STOP BARS SHALL BE THERMOPLASTIC MATERIAL APPLIED AT A MINIMUM THICKNESS OF 60 MIL. ALL PAVEMENT SYMBOLS, ARROWS, AND LETTERING SHALL BE THERMOPLASTIC, TYPE I (PERMANENT) PREFORMED PAVEMENT MARKINGS. TEMPORARY PAVEMENT MARKINGS SHALL BE REFLECTORIZED TRAFFIC PAINT. TEMPORARY STRIPING OF A HALF STREET ROADWAY SHALL BE THERMOPLASTIC.
7. ALL SIGNS SHALL CONFORM TO THE MUTCD AND SHALL BE MADE FROM .080 INCH THICK ALUMINUM. SIGN POSTS AND EXTENSIONS SHALL BE GALVANIZED SQUARE PERFORATED STEEL TUBING PER CITY STANDARDS. HEIGHT REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE MUTCD.
8. ALL TRAFFIC CONTROL SIGN FACES SHALL BE CONSTRUCTED OF DIAMOND GRADE REFLECTIVE SHEETING SUCH AS 3M STANDARD, UNLESS OTHERWISE NOTED.
9. ALL SIGNS SHALL HAVE A MINIMUM CLEARANCE FROM EDGE OF SIGN TO THE FACE OF THE CURB OF AT LEAST TWO (2) FEET. IF NO CURB EXISTS, THE MINIMUM CLEARANCE SHALL BE AT LEAST TEN (10) FEET FROM THE EDGE OF THE PAVEMENT. ALL SIGNS SHALL BE PLACED SO AS NOT TO INTERFERE WITH PEDESTRIAN MOVEMENT.
10. ANY TRAFFIC CONTROL SIGNAGE, INCLUDING STREET NAME SIGNS, WHICH MAY BE LOCATED WITHIN TEN (10) FEET OF AN EXISTING STREET LIGHT POLE, MAY BE PROPERLY MOUNTED TO THE POLE WITH APPROVAL FROM THE CITY. SIGN LOCATIONS AND OFFSETS MAY BE ADJUSTED BY THE CITY TO IMPROVE VISIBILITY.
11. ALL CONCRETE MEDIAN CURB NOSES SHALL BE PAINTED WITH YELLOW REFLECTIVE SAFETY PAINT FROM THE FRONT OF THE BULLNOSE BACK TEN (10) FEET.
12. RAISED PAVEMENT MARKERS (RPMs) SHALL BE INSTALLED ON ARTERIAL ROADWAYS WITH EXISTING RPMs OR ROADWAYS WITHOUT FULL STREET LIGHTING UNLESS OTHERWISE INDICATED ON THE DRAWINGS. ALL RAISED PAVEMENT MARKERS SHALL BE INSTALLED IN ACCORDANCE WITH ADOT STANDARD DRAWING M-19. TWO-WAY TYPE M RAISED MARKERS SHALL BE INSTALLED ADJACENT TO FIRE HYDRANTS PER CITY OF AVONDALE STANDARDS.
13. ANY EXISTING SIGNAGE THAT IS REQUIRED TO BE RELOCATED BY THE CONTRACTOR SHALL BE REMOVED, PROTECTED AND STORED FOR REINSTALLATION BY THE CONTRACTOR. DAMAGED SIGNAGE SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. ANY EXISTING SIGNS REQUIRED TO BE PERMANENTLY REMOVED BY THE CONTRACTOR SHALL BE SALVAGED FOR RETURN TO THE CITY.
14. THE CONTRACTOR SHALL REMOVE ALL EXISTING PAVEMENT MARKINGS AND STRIPING IN CONFLICT WITH THE FINAL STRIPING PLAN BY ULTRA HIGH PRESSURE WATER (36,000 PSI PER MAG SPECIFICATIONS). ALL REMOVAL METHODS SHALL BE DONE IN CONFORMANCE WITH EPA REQUIREMENTS. IF THE REMOVAL OF THE STRIPING CAUSES A DEPRESSION OF 1/8 INCH OR GREATER IN THE PAVEMENT SURFACE, THE CONTRACTOR SHALL FILL AND SLURRY SEAL THE AREA PER MAG STANDARD SPECIFICATION 713 & 715, TYPE II.
15. THE CONTRACTOR SHALL CLEAN THE ROADWAY SURFACE TO THE SATISFACTION OF THE CITY BY POWER BROOM, STREET SWEEPING, AIR JET BLOWING AND/OR WATER JET/TRUCK PRIOR TO THE PLACEMENT OF ALL PAVEMENT MARKINGS. THE ROAD PAVEMENT SURFACE SHALL BE ABSOLUTELY DRY. THE AIR AND PAVEMENT TEMPERATURES SHALL NOT BE LESS THAN 55° F AND 61° F FOR THE PLACEMENT OF THERMOPLASTIC MARKING AND TYPE I MARKING TAPE, RESPECTIVELY.
16. STREET NAME SIGNS LOCATED AT ALL INTERSECTIONS SHALL HAVE BLOCK NUMBERS. BLOCK NUMBERS SHALL BE AS ASSIGNED BY THE CITY'S BUILDING DIVISION. BLOCK NUMBERS SHALL BE INSTALLED PER CITY SPECIFICATIONS.

MCDOWELL ROAD, ARTERIAL
 DESIGN SPEED = 50 MPH
 POSTED SPEED = 45 MPH

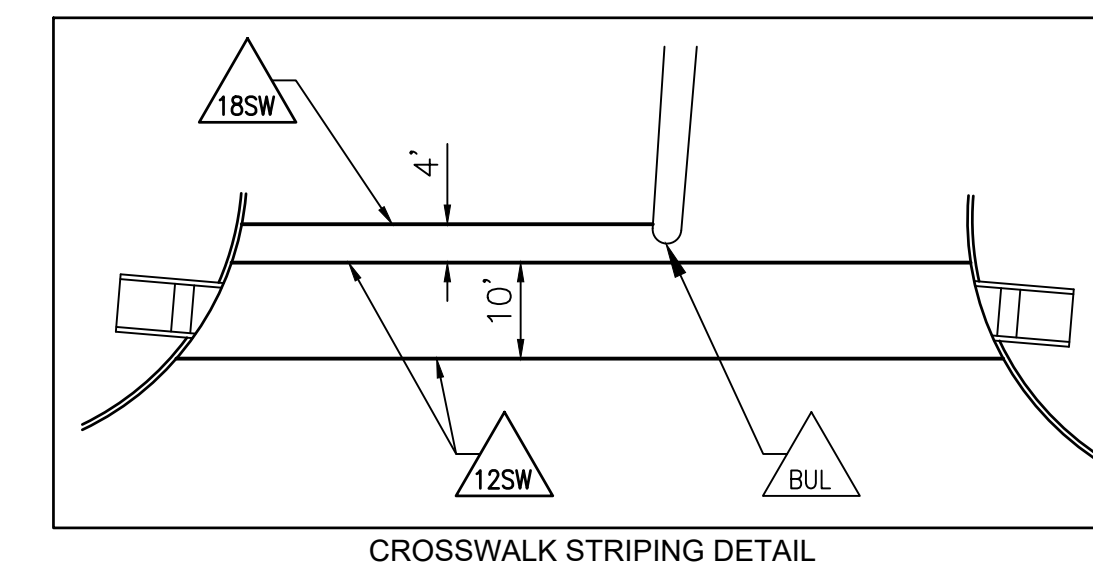
LEGEND:

-  4" DOUBLE YELLOW LINE, ONE SOLID, ONE BROKEN WITH 10' SEGMENT, 30' GAP
-  4" BROKEN WHITE 10' SEGMENT, 30' GAP
-  4" BROKEN WHITE 10' SEGMENT, 30' GAP WITH TYPE "G" RPM'S @ 40' SPACING.
-  6" SOLID WHITE LINE
-  8" SOLID WHITE LINE
-  12" SOLID WHITE LINE
-  18" SOLID WHITE LINE
-  8" BROKEN WHITE 3' SEGMENT, 9' GAP
-  6" DASHED WHITE LINE 2' LINE, 4' GAP
-  BIKE LANE MARKING PER MCDOT DET. 4-24
-  8" SOLID WHITE LINE WITH TYPE 'G' RPM'S @ 20' SPACING.
-  LEFT ARROW PER MCDOT DET. 4-13
-  RIGHT ARROW PER MCDOT DET. 4-13
-  PAINT BULLNOSE PER COA DET. A1601 AND A1220
-  INSTALL TYPE 911-A, BLUE 2-WAY RAISED PAVEMENT MARKER PER COA DET. A1609

NOTE: PLACEMENT OF PAVEMENT ARROWS PER CITY OF AVONDALE DET. A1610



NOTE: IF TURN LANE EXCEEDS 100', ADD SECOND ARROW 10' FROM BACK END OF LANE LINE.



DRAWN BY:	MCD
DESIGNED BY:	MCD
CHECKED BY:	LB
SHEET DWG:	SM01
DRAWING:	HORIZ
SCALE(S):	VERT.

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SHEET TYPE: **SIGNING AND STRIPING GENERAL NOTES AND LEGEND**
 PROJECT NAME: **107TH AVENUE & MCDOWELL ROAD INTERSECTION**
 PROJECT NUMBER: **ST1224**

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

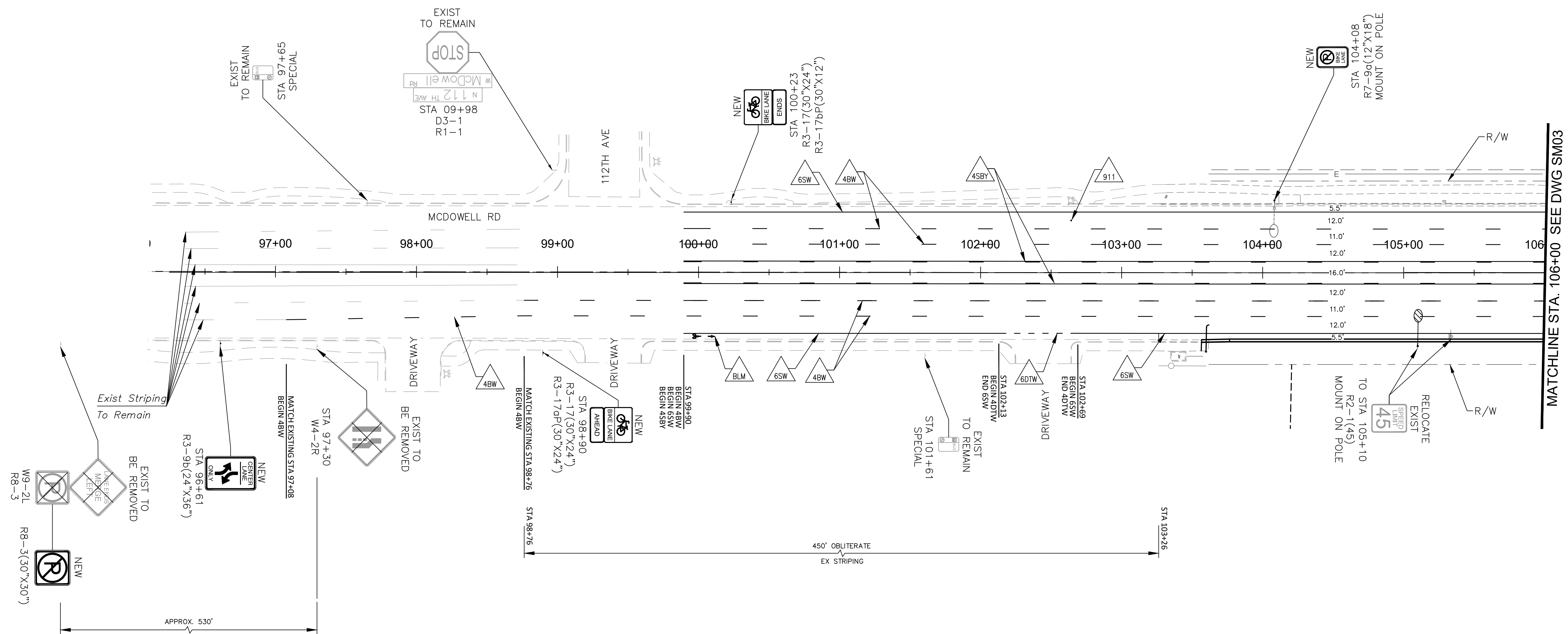
ORIGINAL PLAN DATE: **10-5-2018**
 LATEST REVISION DATE: **- - -**

SHEET NUMBER: **30 OF 84**
 PROJECT NUMBER: **ST1224**



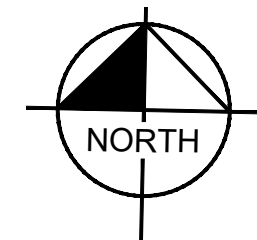
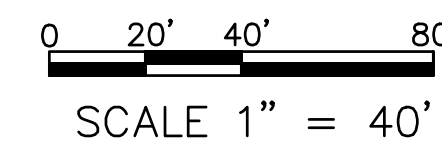
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NOTE TO CONTRACTOR:

1. ALL DIMENSIONS ARE CENTER OF STRIPE TO CENTER OF STRIPE, CENTER OF STRIPE TO CENTER OF SPACE BETWEEN TWO STRIPES, AND CENTER OF STRIPE TO FRONT OF CURB WHERE CURBING IS PRESENT OR PROPOSED.
2. SEE SHEET SM01 FOR CROSSWALK AND STOP BAR DETAIL.
3. LEFT AND RIGHT TURN PAVEMENT MARKING SYMBOLS TO BE PLACED PER DETAIL ON SHEET SM01 AND AVONDALE DETAIL A1610.



DRAWN BY:	MCD
DESIGNED BY:	MCD
CHECKED BY:	LB
SHEET DWG:	SM02
DRAWING HORIZ. SCALE:	1" = 40'
DRAWING VERT. SCALE:	1" = 40'

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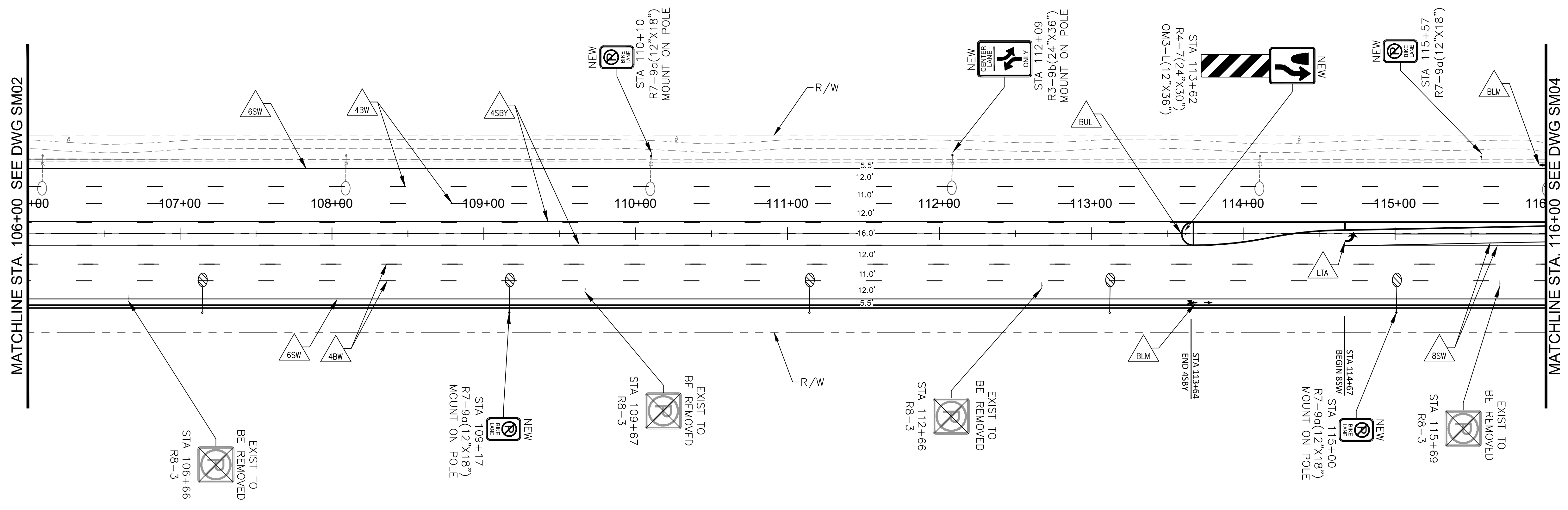
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PROJECT NAME: **107TH AVENUE & MCDOWELL ROAD INTERSECTION**
PROJECT NUMBER: **ST1224**

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: **10-5-2018**
LATEST REVISION DATE:

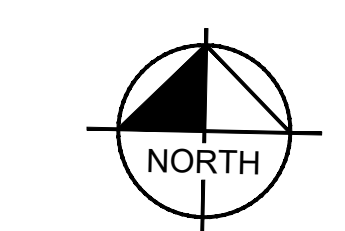
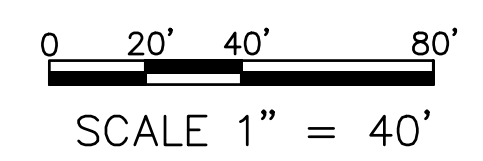
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PROJECT NUMBER: **ST1224**

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NOTE TO CONTRACTOR:

1. ALL DIMENSIONS ARE CENTER OF STRIPE TO CENTER OF STRIPE, CENTER OF STRIPE TO CENTER OF SPACE BETWEEN TWO STRIPES, AND CENTER OF STRIPE TO FRONT OF CURB WHERE CURBING IS PRESENT OR PROPOSED.
2. SEE SHEET SM01 FOR CROSSWALK AND STOP BAR DETAIL.
3. LEFT AND RIGHT TURN PAVEMENT MARKING SYMBOLS TO BE PLACED PER DETAIL ON SHEET SM01 AND AVONDALE DETAIL A1610.



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DESIGNED BY:	MCD
CHECKED BY:	LB
SHEET DWG:	SM03
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VERT. SCALE:	

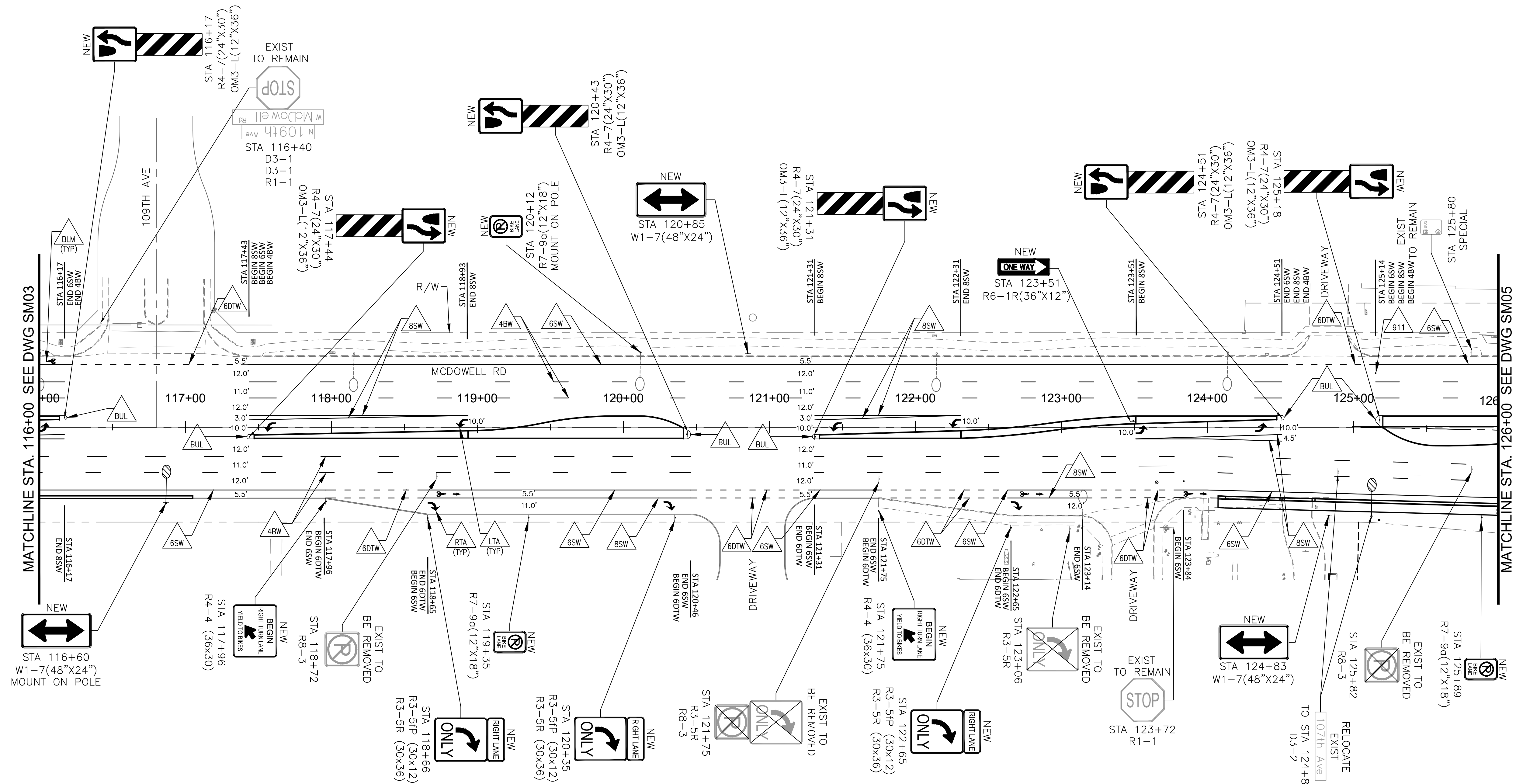
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SHEET TYPE:	SIGNING AND MARKING PLAN
PROJECT NAME:	107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER:	ST1224

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 NOT FOR CONSTRUCTION

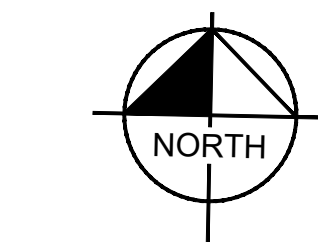
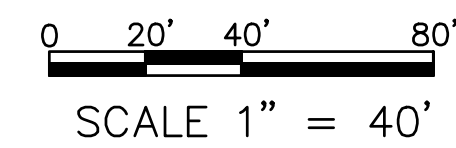
ORIGINAL PLAN DATE:	10-5-2018
LATEST REVISION DATE:	
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PROJECT NUMBER:	ST1224

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NOTE TO CONTRACTOR:

1. ALL DIMENSIONS ARE CENTER OF STRIPE TO CENTER OF STRIPE, CENTER OF STRIPE TO CENTER OF SPACE BETWEEN TWO STRIPES, AND CENTER OF STRIPE TO FRONT OF CURB WHERE CURBING IS PRESENT OR PROPOSED.
2. SEE SHEET SM01 FOR CROSSWALK AND STOP BAR DETAIL.
3. LEFT AND RIGHT TURN PAVEMENT MARKING SYMBOLS TO BE PLACED PER DETAIL ON SHEET SM01 AND AVONDALE DETAIL A1610.



DRAWN BY:	MCD
DESIGNED BY:	MCD
CHECKED BY:	LB
SHEET DWG:	SM04
DRAWING HORIZ SCALE:	1" = 40'
DRAWING VERT SCALE:	

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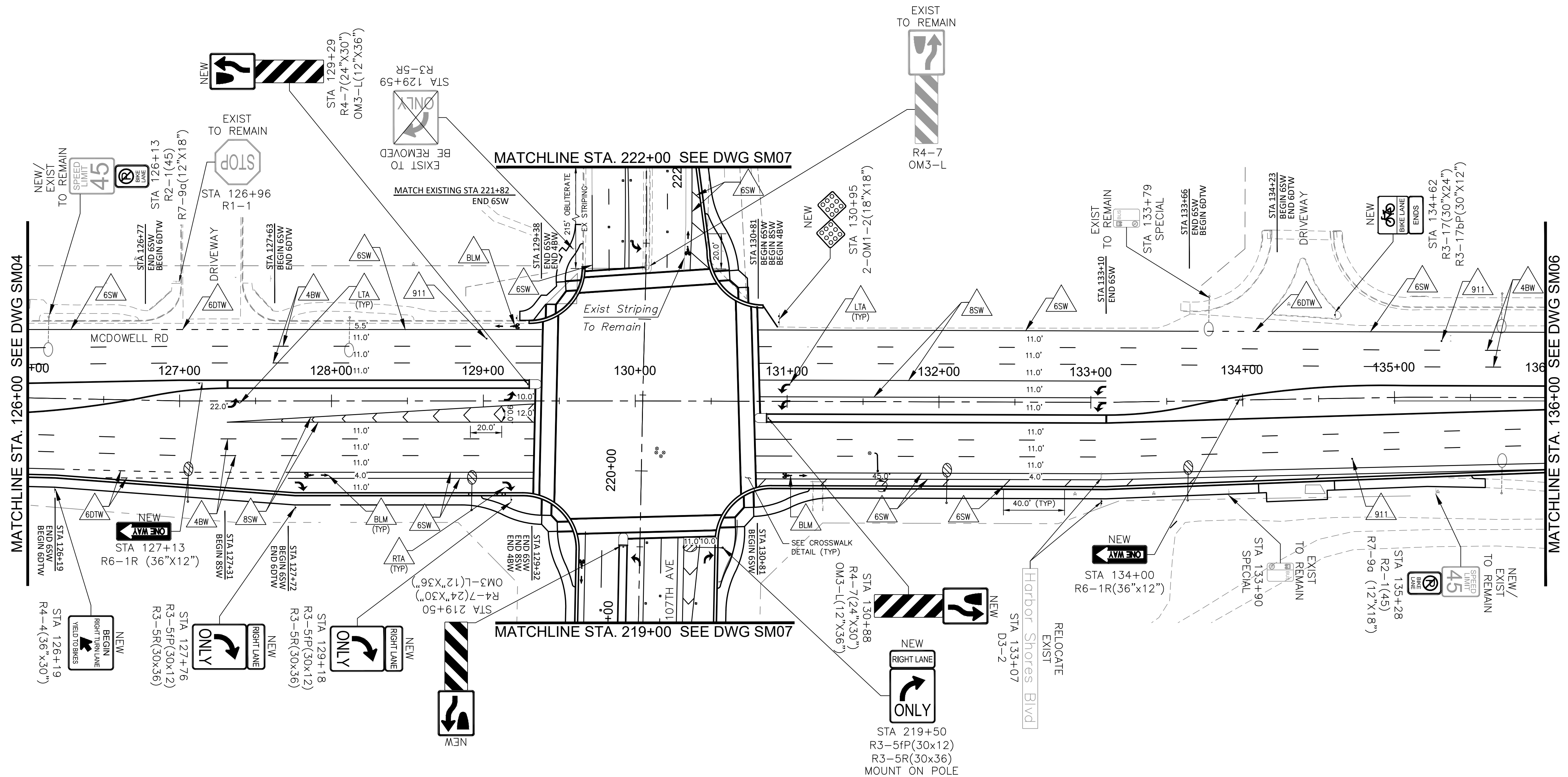
SIGNING AND MARKING PLAN
 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
 LATEST REVISION DATE

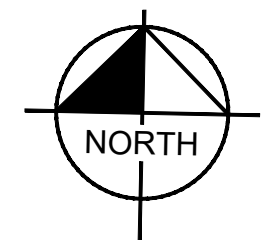
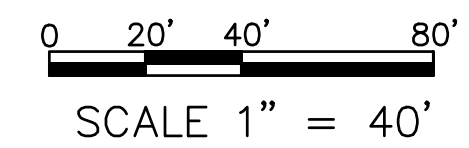
SHEET NUMBER
33 OF 84
 PROJECT NUMBER
ST1224

Plotted By: Rodriquez, David Sheet: Sct: McDowell Road Layout: SM05 October 10, 2018 04:23:58pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Traffic\191323121-SM05.dwg



NOTE TO CONTRACTOR:

1. ALL DIMENSIONS ARE CENTER OF STRIPE TO CENTER OF STRIPE, CENTER OF STRIPE TO CENTER OF SPACE BETWEEN TWO STRIPES, AND CENTER OF STRIPE TO FRONT OF CURB WHERE CURBING IS PRESENT OR PROPOSED.
2. SEE SHEET SM01 FOR CROSSWALK AND STOP BAR DETAIL.
3. LEFT AND RIGHT TURN PAVEMENT MARKING SYMBOLS TO BE PLACED PER DETAIL ON SHEET SM01 AND AVONDALE DETAIL A1610.



DRAWN BY:	MCD
DESIGNED BY:	MCD
CHECKED BY:	LB
SHEET DWG:	SM05
DRAWING HORIZ SCALE:	1" = 40'
DRAWING VERT SCALE:	1" = 40'

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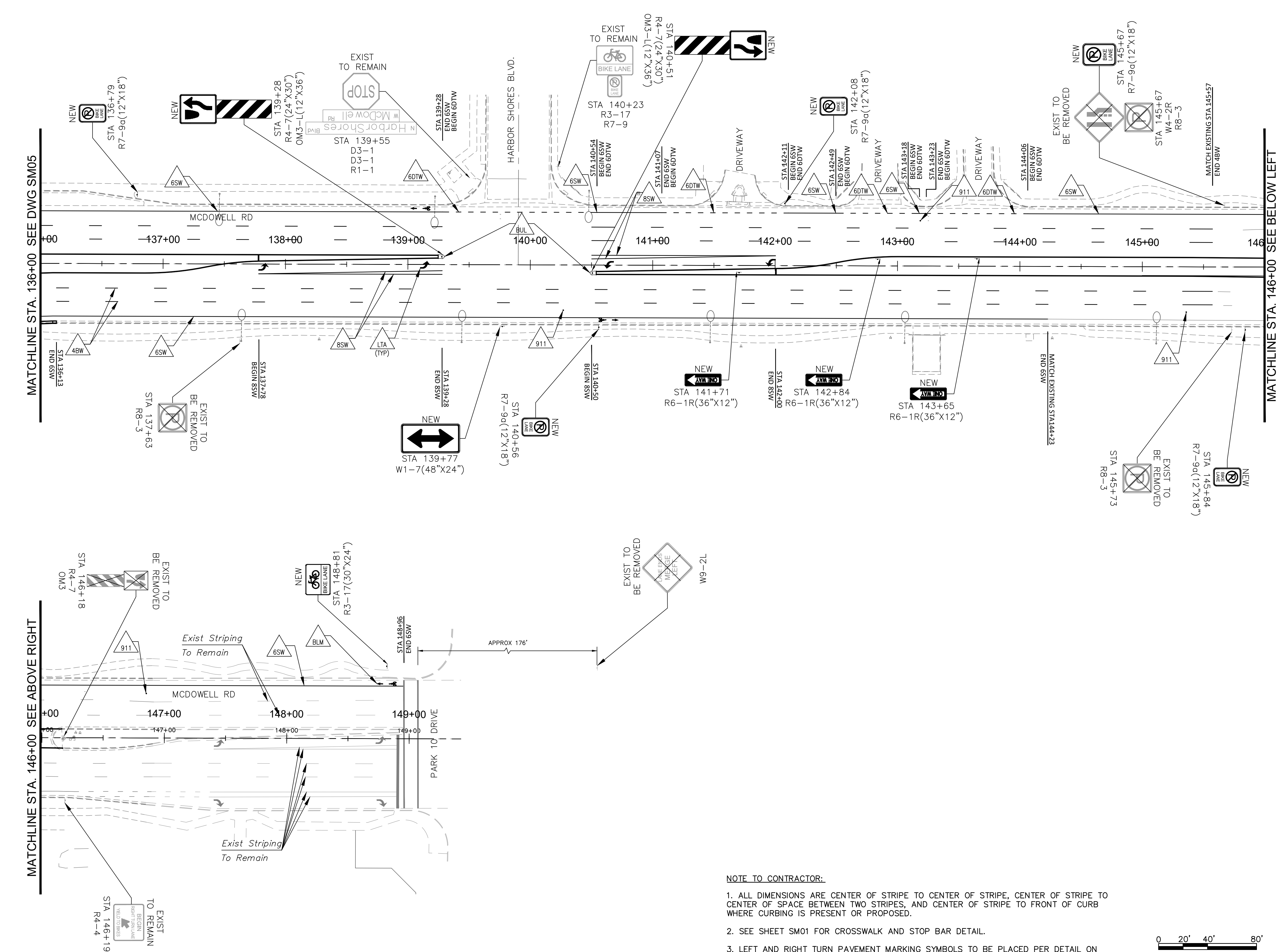
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PROJECT NAME:	107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER:	ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

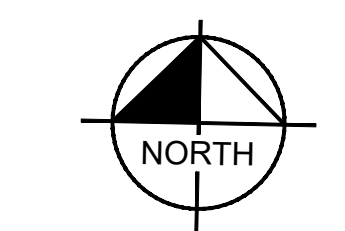
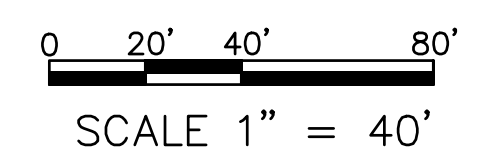
SHEET NUMBER
34 OF 84
 PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Sheet: Sct: McDowell Road Layout: SM06 October 10, 2018 04:24:22pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Traffic\191323121-SM06.dwg



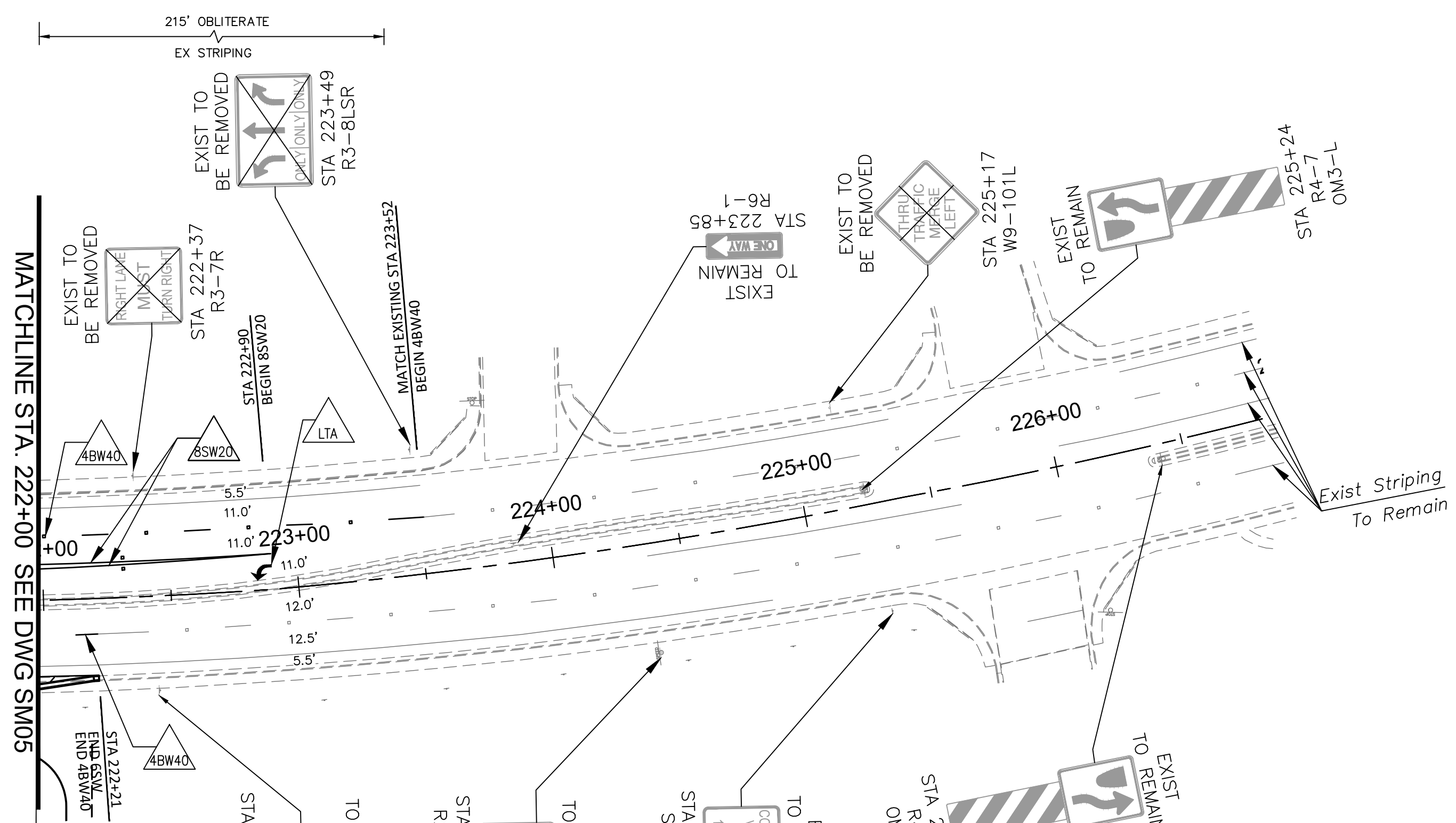
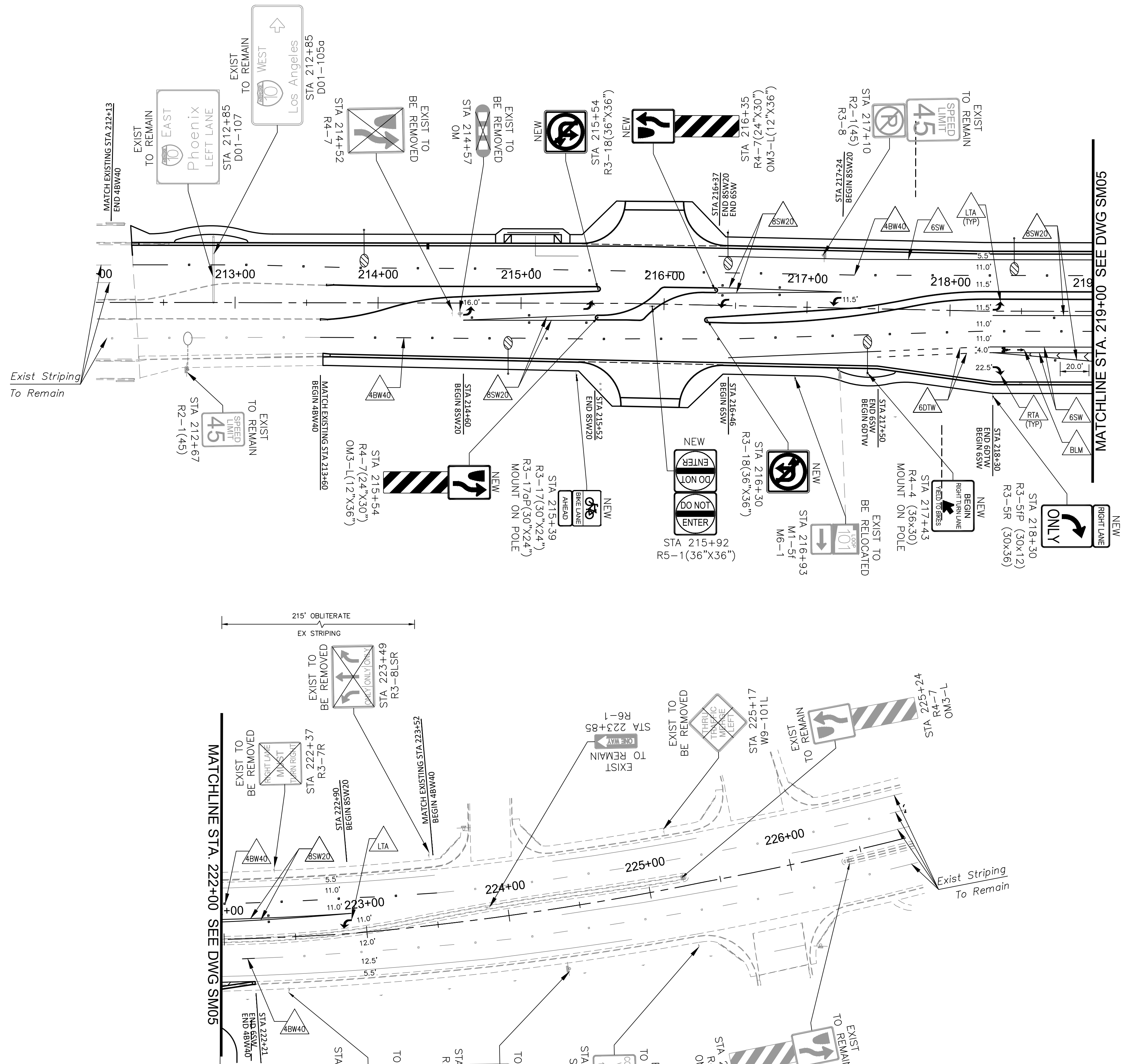
NOTE TO CONTRACTOR:

1. ALL DIMENSIONS ARE CENTER OF STRIPE TO CENTER OF STRIPE, CENTER OF STRIPE TO CENTER OF SPACE BETWEEN TWO STRIPES, AND CENTER OF STRIPE TO FRONT OF CURB WHERE CURBING IS PRESENT OR PROPOSED.
2. SEE SHEET SM01 FOR CROSSWALK AND STOP BAR DETAIL.
3. LEFT AND RIGHT TURN PAVEMENT MARKING SYMBOLS TO BE PLACED PER DETAIL ON SHEET SM01 AND AVONDALE DETAIL A1610.



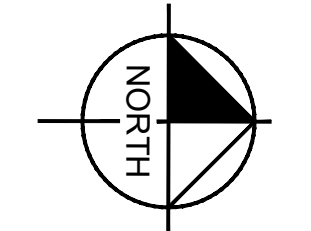
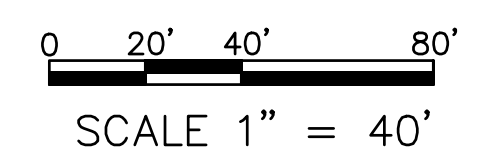
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Kimley»Horn											
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SHEET TYPE: SIGNING AND MARKING PLAN						PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION					
PROJECT NUMBER: ST1224						PROJECT NUMBER: ST1224					
PRELIMINARY 60% NOT FOR CONSTRUCTION											
ORIGINAL PLAN DATE: 10-5-2018											
LATEST REVISION DATE:											
SHEET NUMBER: 35 OF 84											
PROJECT NUMBER: ST1224											

Plotted By: Rofrdriguez, David Sheet: Sct: McDowell Road Layout: SMD7 October 10, 2018 04:24:53pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Traffic\191323121-SM07.dwg



NOTE TO CONTRACTOR:

1. ALL DIMENSIONS ARE CENTER OF STRIPE TO CENTER OF STRIPE, CENTER OF STRIPE TO CENTER OF SPACE BETWEEN TWO STRIPES, AND CENTER OF STRIPE TO FRONT OF CURB WHERE CURBING IS PRESENT OR PROPOSED.
2. SEE SHEET SM01 FOR CROSSWALK AND STOP BAR DETAIL.
3. LEFT AND RIGHT TURN PAVEMENT MARKING SYMBOLS TO BE PLACED PER DETAIL ON SHEET SM01 AND AVONDALE DETAIL A1610.



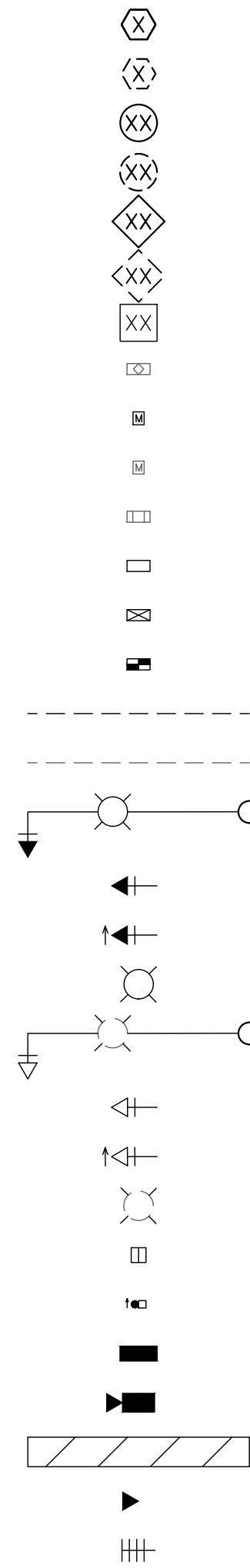
DRAWN BY: MCD	DESIGNED BY: MCD	CHECKED BY: LB	SHEET DWG: SM07	DRAWING HORIZ: 1" = 40'	SCALE: VERT.
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SIGNING AND MARKING PLAN			107TH AVENUE & MCDOWELL ROAD INTERSECTION		
PROJECT NUMBER			ST1224		
PRELIMINARY 60% NOT FOR CONSTRUCTION					
ORIGINAL PLAN DATE 10-5-2018					
LATEST REVISION DATE					
SHEET NUMBER 36 OF 84					
PROJECT NUMBER ST1224					

TRAFFIC SIGNAL GENERAL NOTES:

- ALL TRAFFIC SIGNAL EQUIPMENT AND CONSTRUCTION SHALL CONFORM TO THE CITY OF AVONDALE TRAFFIC SIGNAL DESIGN AND CONSTRUCTION STANDARDS, LATEST EDITION, MARICOPA COUNTY DEPARTMENT OF TRANSPORTATION (MCDOT) SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS FOR PUBLIC WORKS CONSTRUCTION, ARIZONA DEPARTMENT OF TRANSPORTATION (ADOT) TRAFFIC SIGNAL AND LIGHTING STANDARDS, LATEST EDITION, THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES INCLUDING THE ARIZONA SUPPLEMENT (MUTCD), THESE PLANS, AND SPECIAL PROVISIONS.
- ALL UTILITIES SHALL BE BLUE-STAKED PRIOR TO THE START OF CONSTRUCTION. CONTACT BLUESTAKE A MINIMUM OF SEVENTY-TWO (72) HOURS IN ADVANCE OF CONSTRUCTION AT (602) 263-1100 OR (800) STAKE-IT (OUTSIDE MARICOPA COUNTY).
- FOR ELECTRICAL SERVICE REQUIREMENTS, CONTACT RYAN EARWOOD WITH SALT RIVER PROJECT AT (602) 236-4128, AT LEAST FORTY-FIVE (45) WORKING DAYS BEFORE SERVICE IS REQUIRED.
- TOP OF ALL NEW SIGNAL STRUCTURE FOUNDATIONS SHALL BE AT THE SAME ELEVATION AS THE ADJACENT TOP OF CURB AS SPECIFIED ON THE PLANS, OR NOT MORE THAN FOUR (4) INCHES ABOVE THE ADJACENT PAVEMENT, WHERE CURBING DOES NOT EXIST.
- GROUND RODS SHALL BE INSTALLED; TWO (2) ADJACENT TO ELECTRICAL SERVICE PANEL WITH BARE BOND CONDUCTOR ATTACHED, ONE (1) IN CENTER OF CONTROLLER ASSEMBLY FOUNDATION, AND ONE (1) IN MAIN PULLBOX.
- PAVEMENT MARKINGS SHOWN ON SHEET 39 OF THESE PLANS ARE FOR REFERENCE ONLY. SEE SHEET 30 THROUGH 36 FOR PAVEMENT MARKINGS AND SIGNING.
- METER PEDESTAL SHALL INCLUDE PHOTOELECTRIC CELL (PEC) FOR STREET LIGHTS & INTERNALLY ILLUMINATED STREET NAME SIGNS (IISNS) PER CITY OF AVONDALE SPECIFICATIONS.
- THE CONTROLLER CABINET SHALL BE WIRED AND LABELED WITH THE SAME PHASE NUMBER DESIGNATION AS SHOWN IN THE PHASE DIAGRAM. EACH CONNECTOR SHALL HAVE ITS PINS BROUGHT TO CABINET TIE POINTS. CONTROLLER CABINET WIRING SHALL BE PER CITY OF AVONDALE COLOR CODING STANDARDS.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND INSTALLING EMERGENCY VEHICLE PRE-EMPTION (TOMAR MODEL 2140-M4SPM PROCESSOR & MODEL 2091-SD DETECTORS). THE CONTRACTOR SHALL COORDINATE THE INSTALLATION LOCATION WITH BENNIE ROBINSON WITH CITY OF AVONDALE (623) 333-4231. THE PRE-EMPTION CABLE SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR AND SHALL BE 3-M OPTICOM MODEL 138 OPTICAL OR EQUAL. THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL NEW CONDUCTORS.
- UNLESS OTHERWISE SPECIFIED ON THE PLANS, ALL NEW SIGNAL POLES, SIGNAL AND LUMINAIRE MAST ARMS, EXPOSED BASE PLATES, AND ANCHOR NUTS AND BOLTS SHALL BE PAINTED "COCOA BROWN" PER VALMONT POWDER COATED STANDARDS AND SPECIFICATIONS. MINIMUM ACCEPTANCE PAINTING SPECIFICATION SHALL COMPLY WITH VALMONT PAINTS SPECIFICATION.
- STREET LIGHTING LUMINAIRES SHALL BE 209W (MULTI-VOLT, 120-277 VOLT) LED COBRAHEAD, AMERICAN ELECTRIC LIGHTING ATBL-D-MVOLT-R3-DDB, PROVIDED BY AND INSTALLED BY THE CONTRACTOR.
- SIGNAL TESTING AND TURN ON PROCEDURE: SEE SPECIAL PROVISIONS FOR TRAFFIC CONTROL DURING TESTING AND TURN-ON.
(A) THE CONTRACTOR SHALL NOTIFY THE CITY TWENTY-FOUR (24) HOURS PRIOR TO ACTIVATION OF THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL CONDUCT A TEST, WITH THE CITY OF AVONDALE TRAFFIC SIGNAL TECHNICIAN INSPECTOR, TO INSURE THAT THE INDIVIDUAL TRAFFIC AND PEDESTRIAN SIGNAL HEADS AND INDICATIONS ARE OPERATING FOR THE APPROPRIATE PHASE AND IN THE APPROPRIATE SEQUENCES.
- THE TRAFFIC SIGNAL CONSTRUCTION MUST BE SUPERVISED BY A CERTIFIED IMSA LEVEL II SIGNAL TECHNICIAN ON SITE.
- THE CONTRACTOR SHALL TRENCH TO WITHIN TWO (2) FEET OF THE SRP POWER SOURCE. THE CONTRACTOR WILL PROVIDE AND INSTALL A 2 1/2 INCH CONDUIT FROM THE POWER SOURCE TO THE ELECTRICAL SERVICE CABINET. SRP WILL PULL THE SERVICE WIRE TO THE ELECTRICAL SERVICE CABINET AND TERMINATE.
- ALL TYPE IV, V, AND VII MOUNTING BRACKETS SHALL HAVE TERMINAL STRIPS ON THE POLE.
- ALL CONDUIT SHALL BE SCHEDULE 80 PVC.
- RED, YELLOW, GREEN, ARROW SIGNAL, AND PEDESTRIAN HEAD INDICATIONS SHALL BE PROVIDED & INSTALLED BY THE CONTRACTOR. ALL INDICATIONS SHALL MEET "LED" TECHNOLOGY.
- ALL NEW RAMPS SHALL PROVIDE PROPER ADA ACCESS TO PEDESTRIAN PUSH BUTTONS. PEDESTRIAN SIGNALS SHALL BE COUNTDOWN TYPE.
- PRIOR TO ACCEPTANCE BY THE CITY OF AVONDALE, DAMAGE TO ANY SIGNAL EQUIPMENT, POLES, ETC., SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- THE ELECTRICAL SERVICE ADDRESS IS AS FOLLOWS: 10690 W. MCDOWELL ROAD, AVONDALE, AZ 85392.
- ALL SIGNAL POLE FOUNDATIONS SHALL BE CONSTRUCTED BY THE CONTRACTOR IN ACCORDANCE WITH CITY OF AVONDALE STANDARD DETAIL A1740, ADOT STANDARD DETAILS T.S. 4-1, T.S. 4-22, AND T.S. 4-23, AND SECTION 901 OF THE AVONDALE SUPPLEMENT TO THE MAG SPECIFICATIONS AND DETAILS.
- THE CONTRACTOR IS RESPONSIBLE FOR DELIVERING SIGNAL EQUIPMENT IDENTIFIED AS TO BE REMOVED AND SALVAGED TO THE CITY OF AVONDALE. CONTACT BENNIE ROBINSON FORTY-EIGHT (48) HOURS IN ADVANCE OF DELIVERY AT (623) 333-4231 FOR LOCATION.
- ALL TRAFFIC SIGNAL PULL BOXES SHALL BE FIBERLYTE WITH "TRAFFIC SIGNAL" LABELED ON LIDS.

LEGEND:

- NEW SIGNAL POLE/METER PEDESTAL IDENTIFIER
- EXISTING CONTROL CABINET IDENTIFIER
- NEW CONDUIT RUN IDENTIFIER
- EXISTING CONDUIT RUN IDENTIFIER
- NEW PULL BOX IDENTIFIER
- EXISTING PULL BOX IDENTIFIER
- REMOVAL NOTE
- EXISTING CONTROL CABINET
- NEW METER PEDESTAL
- EXISTING METER PEDESTAL
- EXISTING LOAD CENTER
- NEW COA PULL BOX
- NEW COA NO. 7 PULL BOX
- NEW COA FIBER SPLICING VAULT
- NEW CONDUIT RUN
- EXISTING CONDUIT RUN
- NEW SIGNAL POLE WITH SIGNAL MAST ARM, SIGNAL HEAD, AND LUMINAIRE MAST ARM
- NEW SIGNAL HEAD
- NEW SIGNAL HEAD WITH LEFT TURN ARROW
- NEW LUMINAIRE
- EXISTING SIGNAL POLE WITH SIGNAL MAST ARM, SIGNAL HEAD, AND LUMINAIRE MAST ARM
- EXISTING SIGNAL HEAD
- EXISTING SIGNAL HEAD WITH LEFT TURN ARROW
- EXISTING LUMINAIRE
- NEW PEDESTRIAN HEAD
- NEW PEDESTRIAN PUSH BUTTON
- NEW ILLUMINATED STREET NAME SIGN
- NEW VIDEO DETECTION/CCTV CAMERA
- VIDEO DETECTION ZONE
- NEW EMERGENCY VEHICLE DETECTOR
- WIRELESS INTERCONNECT ANTENNA



Plotted By: Rodriguez, David Street: Smt: McDowell Road Layout: TSO1 October 10, 2018 04:25:12pm K:\PHX_Roadwork\191323121_107th Avenue and McDowell Road Cond\12-Sheets\Traffic\191323121-TSO1.dwg

DRAWN BY:	MCD
DESIGNED BY:	ZMH
CHECKED BY:	LB
SHEET DWG:	TS01
DRAWING HORIZ SCALE(S):	N/A
DRAWING VERT. SCALE(S):	N/A

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TRAFFIC SIGNAL GENERAL NOTES AND LEGEND

107TH AVENUE & MCDOWELL ROAD INTERSECTION

PROJECT NUMBER
ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

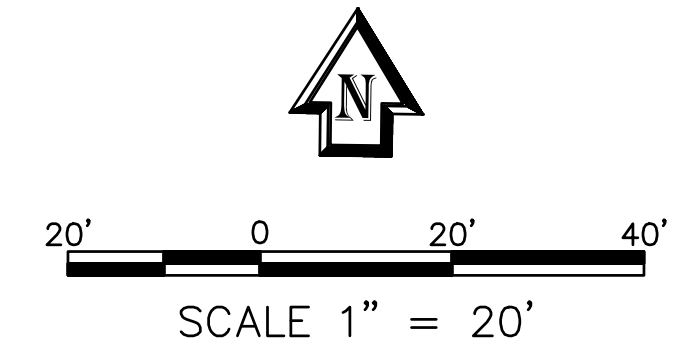
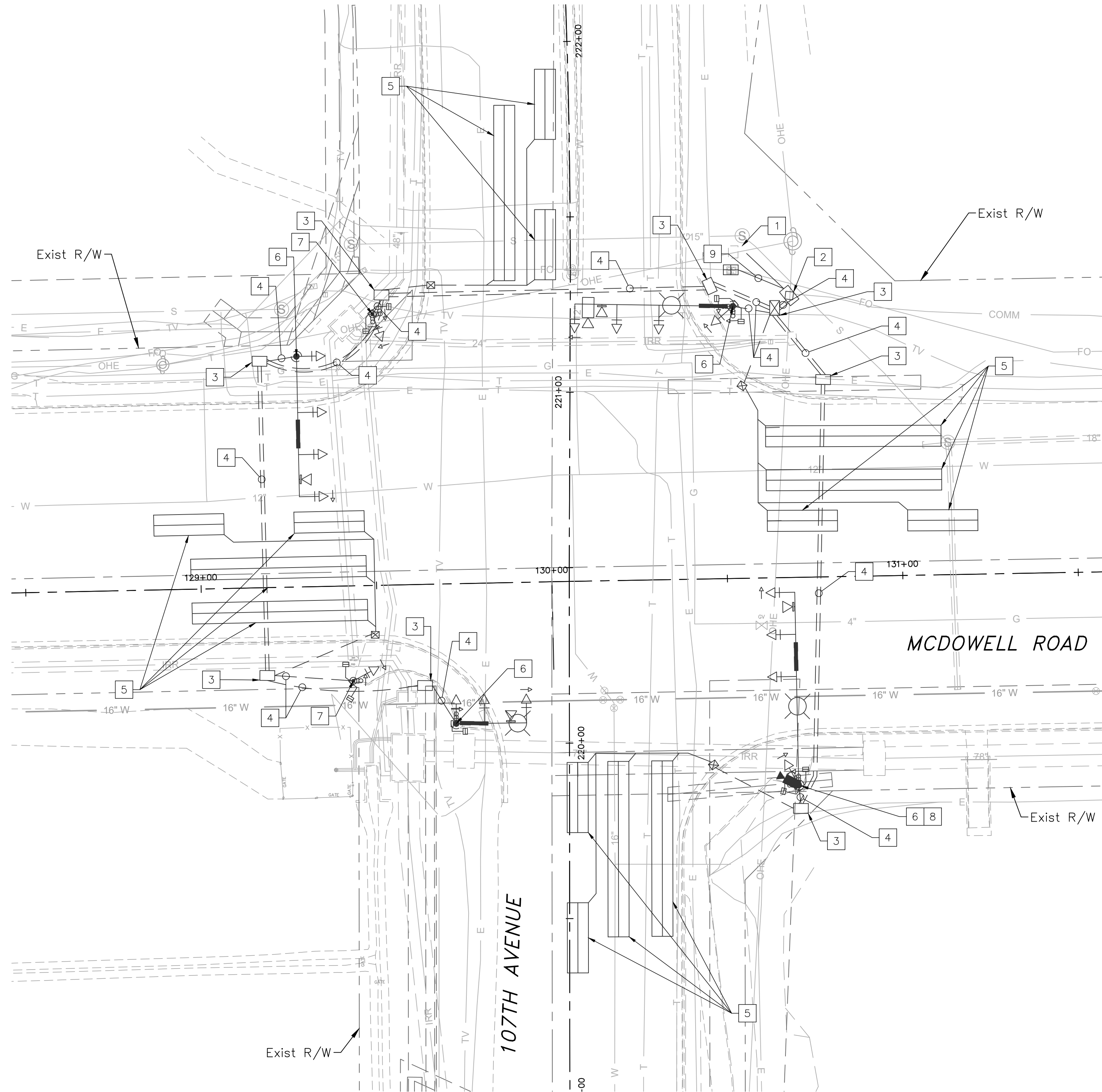
ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
37 OF 84

PROJECT NUMBER
ST1224



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TRAFFIC SIGNAL REMOVAL NOTES	
	DESCRIPTION
1	PROTECT EXISTING METER PEDESTAL IN PLACE.
2	REMOVE & SALVAGE EXISTING CONTROL CABINET. REMOVE EXISTING CONTROL CABINET FOUNDATION.
3	REMOVE EXISTING PULL BOX.
4	ABANDON EXISTING CONDUIT. REMOVE EXISTING CONDUCTORS.
5	ABANDON EXISTING LOOPS IN PLACE.
6	REMOVE & SALVAGE EXISTING SIGNAL POLE, MAST ARM, AND EQUIPMENT.
7	REMOVE & SALVAGE EXISTING SIGNAL POLE AND EQUIPMENT.
8	REMOVE & SALVAGE EXISTING CCTV.
9	ABANDON EXISTING CONDUIT. REMOVE EXISTING 12 SMFO CABLE.

DRAWN BY:	MCD
DESIGNED BY:	ZMH
CHECKED BY:	LB
SHEET DWG:	TS02
DRAWING HORIZ SCALE:	1"=20'
DRAWING VERT SCALE:	

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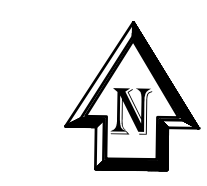
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 PROJECT NAME: **107TH AVENUE & MCDOWELL ROAD INTERSECTION**
 PROJECT NUMBER: **ST1224**

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: **10-5-2018**
 LATEST REVISION DATE: - -

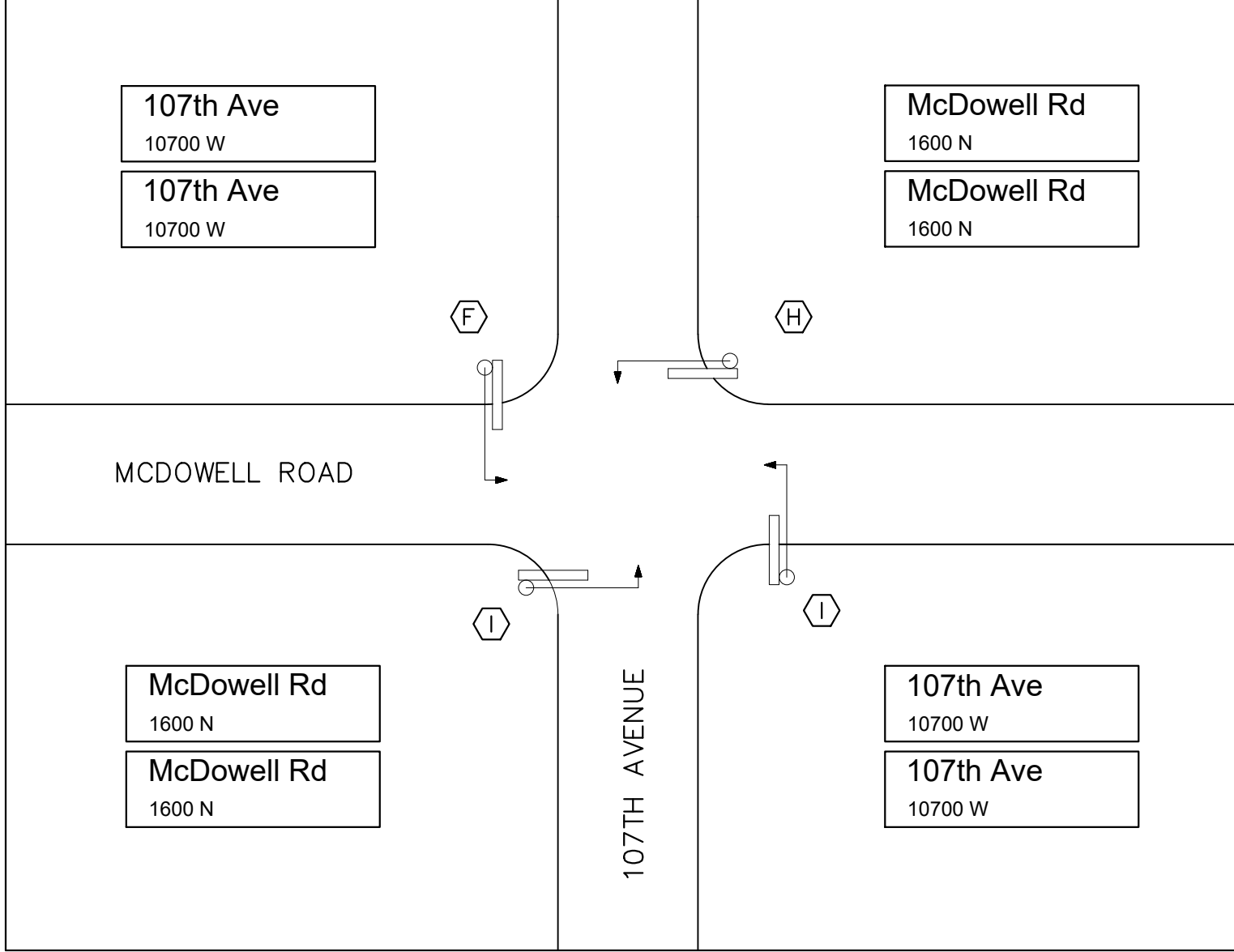
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 PROJECT NUMBER: **ST1224**





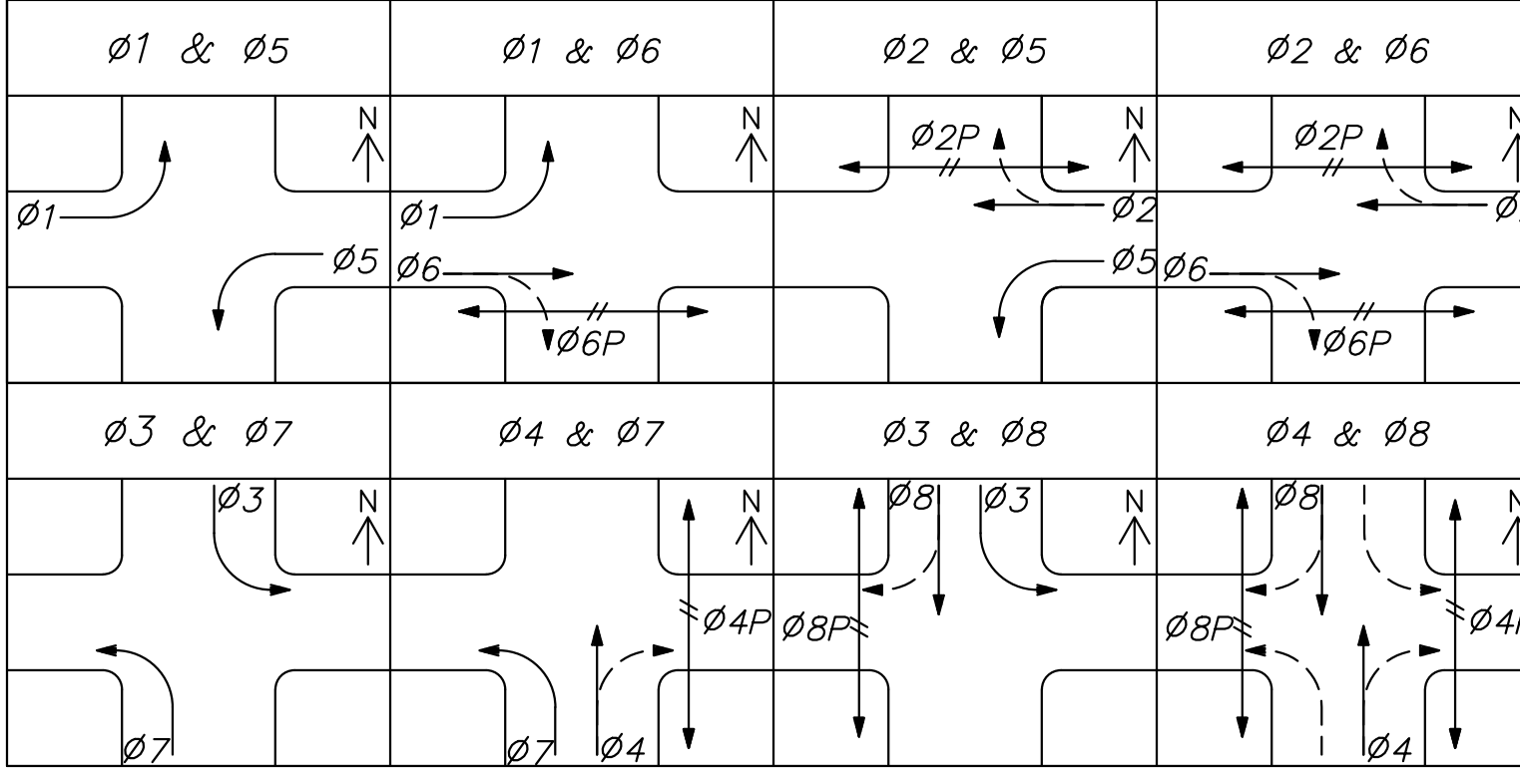
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SCALE 1" = 20'

INTERNALLY ILLUMINATED SIGNAGE



NOTE:
SEE AVONDALE STANDARD DETAIL A1747 FOR SIGN FORMATS.

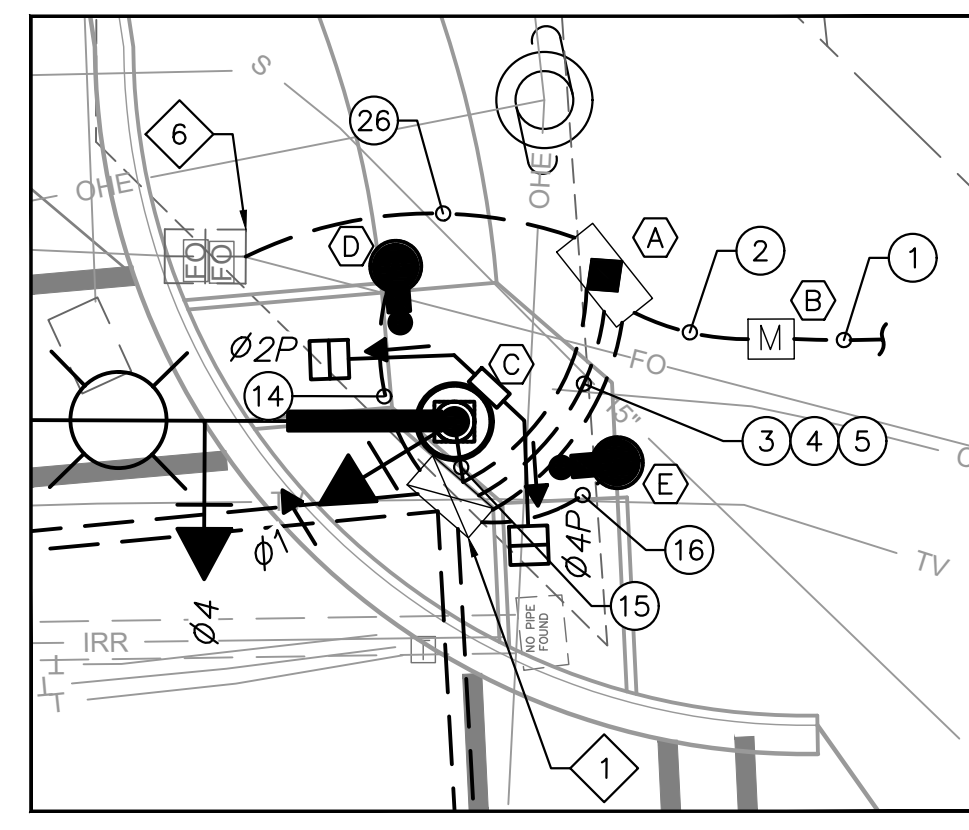
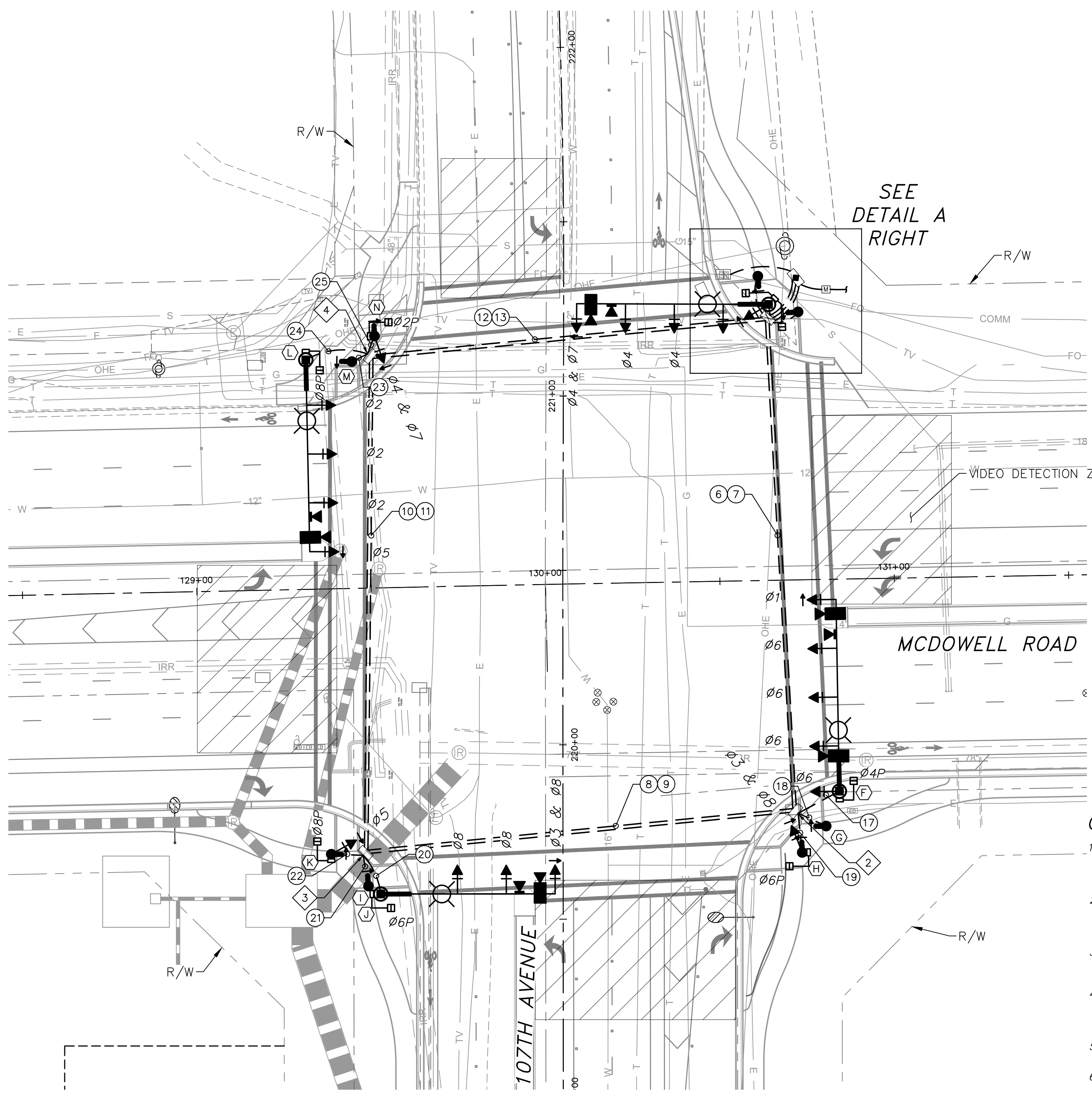
PHASING MOVEMENTS



SERVICE ADDRESS:
10690 W. MCDOWELL ROAD
AVONDALE, AZ 85392

PULL BOX SCHEDULE

NO.	TYPE	LOCATION	REMARKS
1	COA NO. 7 W/EXTENSION	STA. 130+65.1 75.1' RT	PROVIDE & INSTALL PER AVONDALE STD. DET. A1710
2	COA NO. 7	STA. 130+70.4 66.4' LT	REMOVE & INSTALL PER AVONDALE STD. DET. A1710
3	COA NO. 7	STA. 129+46.7 76.0' LT	PROVIDE & INSTALL PER AVONDALE STD. DET. A1710
4	COA NO. 7	STA. 129+51.1 66.5' RT	REMOVE & INSTALL PER AVONDALE STD. DET. A1710



CONSTRUCTION NOTES:

- ALL NEW AND EXISTING PULL BOXES SHALL BE LEFT IN CLEAN CONDITION, FREE OF DIRT AND DEBRIS, UPON COMPLETION OF WORK. ALL SPLICES IN PULL BOX WILL BE WRAPPED IN RUBBER TAPE AND DIPPED IN SCOTCHKOTE.
- ALL EXISTING CONDUCTORS AND CABLES SHALL BE REMOVED AND ALL TRAFFIC SIGNAL EQUIPMENT SHALL BE WIRED WITH ALL NEW IMSA CONDUCTORS AND VIDEO DETECTION CABLES, AS SHOWN IN THE CONDUCTOR SCHEDULE AND THESE PLANS.
- PRIOR TO ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT BLUE STAKE AT (602) 263-1100 SO EXISTING UTILITIES MAY BE ACCURATELY LOCATED.
- NEW PULL BOXES SHALL BE INSTALLED AT THE SAME ELEVATION AS TOP OF SIDEWALK. ALL EXISTING PULL BOXES SHALL BE ADJUSTED TO BE THE SAME ELEVATION AS TOP OF NEW SIDEWALK.
- ALL NEW TRAFFIC SIGNAL PULL BOXES SHALL BE FIBERLYTE WITH "TRAFFIC SIGNAL" LABELED ON THE LIDS.
- FUSION SPLICE 12 SMFO CABLE TO DESIGNATED FIBERS OF 96 SMFO CABLE.

DRAWN BY:	MCD
DESIGNED BY:	ZMH
CHECKED BY:	LB
SHEET DWG:	TS03
DRAWING HORIZ SCALE(S):	1"=20'
VERT. SCALE(S):	N/A

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SHEET TYPE: **TRAFFIC SIGNAL PLAN**
PROJECT NAME: **107TH AVENUE & MCDOWELL ROAD INTERSECTION**
PROJECT NUMBER: **ST1224**

PRELIMINARY
60%
NOT FOR CONSTRUCTION

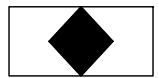
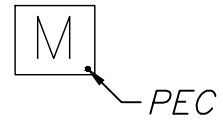
ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
39 OF 84
PROJECT NUMBER
ST1224

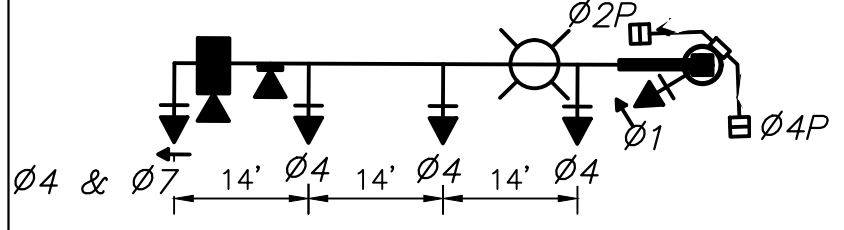


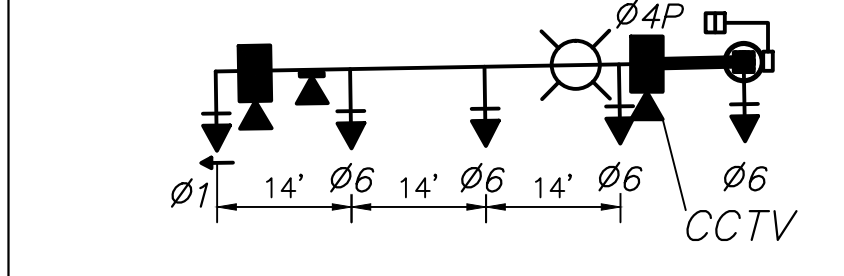



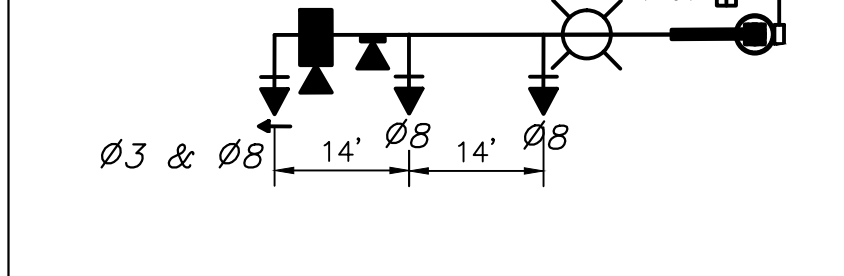

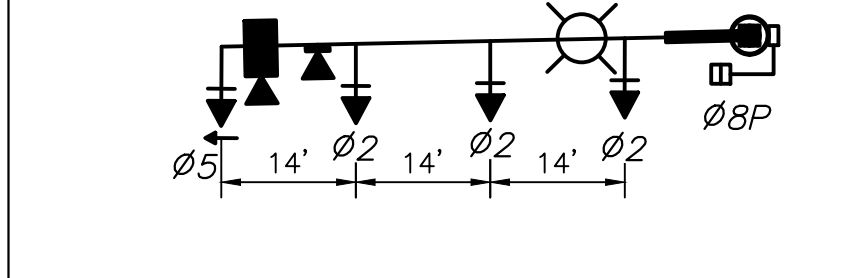




Plotted By: Rodriguez, David Street: Sct: McDowell Road Layout: TS03 October 10, 2018 04:26:04pm k:\Phx_Roadway\191323121-107th Avenue and McDowell Road\Cadd\2-Streets\Traffic\191323121-TS03.dwg

TRAFFIC SIGNAL CABINET SCHEDULE

CABINET	TYPE	CONTROLLER	AUX. CONTROL	REMARKS	LOCATION
	332 CABINET	ECONOLITE ASC/3 RM W/ ETHERNET PORT OR APPROVED EQUAL	-	1. INSTALL NEW CABINET. 2. INSTALL NEW CONTROLLER. 3. INSTALL "GROUND ROD" IN CENTER OF CONTROLLER CABINET AND IN THE MAIN PULL BOX.	STA. 130+73.3 86.6' LT
	TESCO 27/100/22-20 BBS SERIES		INSTALL A PHOTOELECTRIC CELL (PEC) FOR STREET LIGHTS AND IISNS	1. SERVICE PEDESTAL PROVIDED AND INSTALLED BY THE CONTRACTOR. 2. CABINET EXTERIOR SHALL BE ANODIZED ALUMINUM. 3. AN UNINTERRUPTABLE POWER SUPPLY (UPS) SYSTEM SHALL BE PART OF THE SERVICE PEDESTAL. 4. INSTALL "GROUND ROD" ADJACENT TO METER PEDESTAL WITH BARE BOND #8 CONDUCTOR ATTACHED.	SERVICE ADDRESS: 10690 W. MCDOWELL ROAD, AVONDALE, AZ 85392. STA. 130+81.9 83.2' LT

TRAFFIC SIGNAL POLE SCHEDULE

TROMBONE STYLE SIGNAL POLES, MASTARMS		POLES		MAST ARMS		SIGNALS		PB SIGN	REMARKS
POLE LAYOUT	TYPE	LOCATION	SIGNAL	LUMINAIRE	MTG	FACE			
	R	STA. 130+65.3 79.1' LT	55'	15'	1-V 1-VII	1-Q-2 3-F 1-R 2-M/H	-	1. INSTALL FOUNDATION PER C.O.A. STD. DET. A1740. 2. INSTALL TYPE "R" POLE PER C.O.A. STD. DET. A1741 & A1742. 3. INSTALL 55' SIGNAL MAST ARM PER C.O.A. STD. DET. A1746 & A1746-1. 4. SIGNAL HEAD SPACING PER C.O.A. STD. DET. A1746. 5. INSTALL 15' LUMINAIRE MAST ARM PER C.O.A. STD. DET. A1741 & A1746. 6. FURNISH AND INSTALL IISNS PER C.O.A. STD. DET. A1745, A1745-1, & A1747. SEE NOTE 9. 7. INSTALL VIDEO DETECTION PER SPECIFICATIONS. 8. INSTALL EMERGENCY VEHICLE DETECTOR. SEE NOTE 9 ON SIGNAL GENERAL NOTES SHEET. 9. INSTALL CCTV CAMERA PER SPECIFICATIONS.	
	PB	STA. 130+62.4 87.3' LT	-	-	-	-	R10-3e (L)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-22. 2. INSTALL TYPE "PB" POLE PER ADOT STD. DET. T.S. 4-22. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	
	PB	STA. 130+73.8 76.9' LT	-	-	-	-	R10-3e (R)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-22. 2. INSTALL TYPE "PB" POLE PER ADOT STD. DET. T.S. 4-22. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	
	R	STA. 130+83.2 60.8' RT	55'	15'	1-V	1-R 3-F 1-M/H 1-F	-	1. INSTALL FOUNDATION PER C.O.A. STD. DET. A1740. 2. INSTALL TYPE "R" POLE PER C.O.A. STD. DET. A1741 & A1742. 3. INSTALL 55' SIGNAL MAST ARM PER C.O.A. STD. DET. A1746 & A1746-1. 4. SIGNAL HEAD SPACING PER C.O.A. STD. DET. A1746. 5. INSTALL 15' LUMINAIRE MAST ARM PER C.O.A. STD. DET. A1741 & A1746. 6. FURNISH AND INSTALL IISNS PER C.O.A. STD. DET. A1745, A1745-1, & A1747. SEE NOTE 9. 7. INSTALL VIDEO DETECTION PER SPECIFICATIONS. 8. INSTALL EMERGENCY VEHICLE DETECTOR. SEE NOTE 9 ON SIGNAL GENERAL NOTES SHEET. 9. INSTALL CCTV CAMERA PER SPECIFICATIONS.	
	PB	STA. 130+79.2 70.7' RT	-	-	-	-	R10-3e (L)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-22. 2. INSTALL TYPE "PB" POLE PER ADOT STD. DET. T.S. 4-22. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	
	A(10')	STA. 130+72.2 78.2' RT	-	-	1-IV 1-V	1-Q 1-M/H	R10-3e (L)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-1. 2. INSTALL TYPE "A" POLE PER ADOT STD. DET. T.S. 4-1. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	
	PB	STA. 129+47.4 85.4' RT	-	-	-	-	R10-3e (L)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-22. 2. INSTALL TYPE "PB" POLE PER ADOT STD. DET. T.S. 4-22. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	
	R	STA. 129+50.9 87.8' RT	50'	15'	1-V	1-Q-2 2-F 1-M/H	-	1. INSTALL FOUNDATION PER C.O.A. STD. DET. A1740. 2. INSTALL TYPE "R" POLE PER C.O.A. STD. DET. A1741 & A1742. 3. INSTALL 50' SIGNAL MAST ARM PER C.O.A. STD. DET. A1746 & A1746-1. 4. SIGNAL HEAD SPACING PER C.O.A. STD. DET. A1746. 5. INSTALL 15' LUMINAIRE MAST ARM PER C.O.A. STD. DET. A1741 & A1746. 6. FURNISH AND INSTALL IISNS PER C.O.A. STD. DET. A1745, A1745-1, & A1747. SEE NOTE 9. 7. INSTALL VIDEO DETECTION PER SPECIFICATIONS. 8. INSTALL EMERGENCY VEHICLE DETECTOR. SEE NOTE 9 ON SIGNAL GENERAL NOTES SHEET. 9. INSTALL CCTV CAMERA PER SPECIFICATIONS.	
	A(10')	STA. 129+37.0 76.1' RT	-	-	1-IV 1-V	1-R 1-M/H	R10-3e (R)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-1. 2. INSTALL TYPE "A" POLE PER ADOT STD. DET. T.S. 4-1. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	
	R	STA. 129+32.6 65.8' LT	55'	15'	1-V	1-Q-2 3-F 1-M/H	-	1. INSTALL FOUNDATION PER C.O.A. STD. DET. A1740. 2. INSTALL TYPE "R" POLE PER C.O.A. STD. DET. A1741 & A1742. 3. INSTALL 55' SIGNAL MAST ARM PER C.O.A. STD. DET. A1746 & A1746-1. 4. SIGNAL HEAD SPACING PER C.O.A. STD. DET. A1746. 5. INSTALL 15' LUMINAIRE MAST ARM PER C.O.A. STD. DET. A1741 & A1746. 6. FURNISH AND INSTALL IISNS PER C.O.A. STD. DET. A1745, A1745-1, & A1747. SEE NOTE 9. 7. INSTALL VIDEO DETECTION PER SPECIFICATIONS. 8. INSTALL EMERGENCY VEHICLE DETECTOR. SEE NOTE 9 ON SIGNAL GENERAL NOTES SHEET. 9. INSTALL CCTV CAMERA PER SPECIFICATIONS.	
	PB	STA. 129+45.8 65.0' LT	-	-	-	-	R10-3e (R)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-22. 2. INSTALL TYPE "PB" POLE PER ADOT STD. DET. T.S. 4-22. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	
	A(10')	STA. 129+52.4 72.3' LT	-	-	1-IV 1-V	1-Q 1-M/H	R10-3e (L)	1. INSTALL FOUNDATION PER ADOT STD. DET. T.S. 4-1. 2. INSTALL TYPE "A" POLE PER ADOT STD. DET. T.S. 4-1. 3. INSTALL ADA PEDESTRIAN PUSH BUTTON AND SIGNAGE. SEE NOTE 3.	

* ALL STATIONS ARE IN REFERENCE TO MCDOWELL ROAD UNLESS STATED OTHERWISE

NOTES:

- PRIOR TO CONSTRUCTION, THE CONTRACTORS SHALL POTHOLE FOUNDATION LOCATIONS FOR POTENTIAL CONFLICTS. SEE SPECIAL PROVISIONS FOR POT HOLE REQUIREMENTS.
- TOP OF NEW POLE FOUNDATIONS SHALL BE AT THE SAME ELEVATION AS THE ADJACENT SIDEWALK OR TOP OF CURB WHERE NO SIDEWALK EXISTS.
- THE PEDESTRIAN PUSH BUTTON SHALL BE MOUNTED IN ACCORDANCE WITH ADOT STANDARD DETAIL T.S. 4-21 AND SHALL MEET A.D.A. REQUIREMENTS.
- PRIOR TO INSTALLATION, THE CONTRACTOR IS RESPONSIBLE FOR POSITIONING THE INDIVIDUAL HEADS SO THEY ARE COMPLETELY VISIBLE TO THE APPROACHING DRIVER THE SIGNAL IS INTENDED TO CONTROL.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING AND PULLING NEW CONDUCTORS AND CABLES IN ALL NEW AND EXISTING CONDUIT RUNS, AS INDICATED IN THE CONDUCTOR SCHEDULE. CONDUCTORS SHALL BE CONTINUOUS FROM BOTTOM SIGNAL TERMINAL STRIP TO CONTROLLER CABINET.
- THE CONTROLLER CABINET SHALL BE WIRED AND LABELED WITH THE SAME PHASE NUMBER DESIGNATION AS SHOWN IN THE PHASING SCHEMATIC. EACH CONNECTOR SHALL HAVE ALL ITS PINS BROUGHT TO THE CABINET TIE POINTS. CONTROLLER CABINET WIRING SHALL BE PER CITY OF AVONDALE COLOR CODING STANDARDS.
- ALL TYPE IV, V, AND VII MOUNTING BRACKETS SHALL HAVE TERMINAL STRIPS ON THE POLE.
- ALL CONDUITS SHALL BE SCHEDULE 80 PVC.
- THE CONTRACTOR SHALL COORDINATE WITH THE CITY OF AVONDALE IN THE DESIGN, LAYOUT AND STREET NAMING CONVENTION OF THE IISNS. THE CONTRACTOR SHALL OBTAIN APPROVAL FROM THE CITY PRIOR TO ORDER AND INSTALLATION OF IISNS. IISNS SHALL BE MANUFACTURED TO MOUNT ONTO THE COA SIGNAL POLE MAST ARMS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR TERMINATING MAST ARMS AT THE TS BLOCK IN THE POLE. 20 CONDUCTOR CABLE SHALL RUN UNSPLICED BACK TO THE CONTROL CABINET.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING ALL WIRELESS EQUIPMENT AS SPECIFIED IN THE SPECIAL PROVISIONS IF NECESSARY. ALL WIRELESS EQUIPMENT EXCEPT CABLE WILL BE INSTALLED BY CITY FORCES. THE CONTRACTOR WILL TERMINATE CABLE AT CONTROLLER AND ANTENNA LOCATIONS.
- CONTRACTOR SHALL RUN PUSH BUTTON CONDUCTOR CONTINUOUS (FROM 20-CONDUCTOR) & JUMP THE P.B. COMMONS ACROSS PUSH BUTTONS.
- ALL POLE FOUNDATIONS SHALL BE THE SAME ELEVATION AS TOP OF SIDEWALK.

Plotted By: Rofdriguez, David Street: Smt. McDowell Road Layout: TS04 October 10, 2018 04:26:58pm k:\Phix_Roadway\191323121-107th Avenue and McDowell Road\Cad\12-Sheets\Traffic\191323121-TS04.dwg

DRAWN BY: MCD
DESIGNED BY: ZMH
CHECKED BY: LB
SHEET DWG: TS04
DRAWING HORIZ: N/A
SCALE(S): VERT: N/A

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SHEET TYPE: TRAFFIC SIGNAL CABINET AND POLE SCHEDULE
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: - - -

SHEET NUMBER: 40 OF 84
PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David Sheet Set: McDowell Road Layout: TS05 October 10, 2018 04:27:20pm k:\PHX_Roadwork\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Traffic\191323121-TS05.dwg

CONDUCTOR SCHEDULE

EXISTING (E) OR PROPOSED (P)		P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P			
CONDUIT RUN NUMBER		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25		
CONDUIT SIZE (INCHES)		2½	2½	4	4	4	4	4	4	4	4	4	4	4	2	4	2	4	2	2	4	2	2	4	2			
AWG	CIRCUIT																											
	PHASE																											
IMSA CABLE	NO. OF CABLES																											
	NO. OF CONDUCTORS																											
#14	SIGNAL	Ø1																										
	SIGNAL	Ø2																										
	SIGNAL	Ø3																										
	SIGNAL	Ø4																										
	SIGNAL	Ø5																										
	SIGNAL	Ø6																										
	SIGNAL	Ø7																										
	SIGNAL	Ø8																										
	PED. SIGNAL	Ø2																										
	PED. SIGNAL	Ø4																										
	PED. SIGNAL	Ø6																										
	PED. SIGNAL	Ø8																										
	PED. P.B.	Ø2																										
	PED. P.B.	Ø4																										
	PED. P.B.	Ø6																										
	PED. P.B.	Ø8																										
	PED. P.B. COMMON																											
	SIGNAL COMMON																											
	SPARES																											
▽	PREEMPTION SENSOR	Ø2																										
	PREEMPTION SENSOR	Ø4																										
	PREEMPTION SENSOR	Ø6																										
	PREEMPTION SENSOR	Ø8																										
△	VIDEO DETECTION	Ø2																										
	VIDEO DETECTION	Ø4																										
	VIDEO DETECTION	Ø6																										
	VIDEO DETECTION	Ø8																										
CCTV CABLE																												
ANTENNA INTERCONNECT CABLE																												
#12	LIGHTING	240V																										
	IISNS	120V																										
#8	INSULATED BOND (GREEN)																											
	COMMON (WHITE)																											
#6	SERVICE	120/240V																										

TO BE COMPLETED AT 90% SUBMITTAL

*CONDUCTORS BY SRP
 △ CONTRACTOR SHALL PROVIDE AND INSTALL NEW VIDEO DETECTION CABLES FOR ALL CAMERAS

IMSA CABLE 19-1, #14 AWG, 4 CONDUCTOR & 7 CONDUCTOR			
SIGNAL HEADS OUTBOARD & FAR LEFT		SIGNAL HEADS INBOARD & SIDEMOUNT	
7 CONDUCTOR CABLE		4 CONDUCTOR CABLE	
BASIC COLOR	SIGNAL INTERVAL	BASIC COLOR	SIGNAL INTERVAL
RED	RED		RED
BLACK	YELLOW		YELLOW
GREEN	GREEN		GREEN
ORANGE	YELLOW ARROW		VEH. COM.
BLUE	GREEN ARROW		
WHITE	VEH. COM.		
WHT/BLK TR	VEH. COM.		

THE CABLE SHALL BE TAGGED AS TO ASSIGNED PHASE.

IMSA CABLE 19-1, #14 AWG, 20 CONDUCTOR				
CABLE	Ø	BASIC COLOR	TRACER STRIPE	SIGNAL INTERVAL
Ø2	Ø6 OR OVERLAP B	RED ORANGE GREEN		RED YELLOW GREEN
Ø3	Ø7 OR OVERLAP C	BLACK ORANGE BLUE	RED RED RED	RED YELLOW GREEN
Ø4	Ø8 OR OVERLAP D	RED ORANGE GREEN	BLACK BLACK BLACK	RED YELLOW GREEN
Ø2 PED.	Ø6 PED.	BLUE BLACK WHITE		WALK DON'T WALK PUSH BUTTON
Ø4 PED.	Ø8 PED.	BLUE RED WHITE	WHITE GREEN RED	WALK DON'T WALK PUSH BUTTON
ALL Ø'S	ALL Ø'S	WHITE BLUE		P.B. COMMON SPARE

DRAWN BY:	MCD
DESIGNED BY:	ZMH
CHECKED BY:	LB
SHEET DWG:	TS05
DRAWING HORIZ. SCALE(S):	N/A
VERT. SCALE(S):	N/A

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TRAFFIC SIGNAL CONDUCTOR SCHEDULE
 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
 LATEST REVISION DATE

SHEET NUMBER
41 OF 84
 PROJECT NUMBER
ST1224



Plotted By: Rodriquez, David Street: Smt: McDowell Road Layout: SLO1 October 10, 2018 04:27:32pm K:\PHX - Roadway\191232121 - 107th Avenue and McDowell Road\Cond\12-Sheets\Lighting\191232121-SLO1.dwg

STREETLIGHT GENERAL NOTES:

1. THE CONTRACTOR SHALL COMPLY WITH STATE AND COUNTY STATUTES ALONG WITH THE MANUFACTURER'S RECOMMENDATIONS. MATERIAL AND EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE CURRENT STANDARDS AND RECOMMENDATIONS OF THE NATIONAL ELECTRICAL CODE, THE NATIONAL ELECTRICAL SAFETY CODE, AND WITH LOCAL CODES WHICH APPLY. WHERE DISCREPANCIES ARISE BETWEEN CODES, THE MOST RESTRICTIVE REGULATION SHALL APPLY.
2. PRIOR TO SUBMITTING A PROPOSAL, THE BIDDER SHALL EXAMINE ALL GENERAL CONSTRUCTION DRAWINGS AND VISIT THE CONSTRUCTION SITE TO BECOME FAMILIAR WITH EXISTING CONDITIONS UNDER WHICH HE WILL OPERATE. NO SUBSEQUENT ALLOWANCE WILL BE MADE IN CONNECTION WITH OR ON BEHALF OF THE CONTRACTOR FOR ANY ERRORS OR NEGLIGENCE ON HIS PART.
3. PRIOR TO BEGINNING ANY WORK, SECURE NECESSARY PERMITS OR CLEARANCES FROM THE AUTHORITIES HAVING JURISDICTION. PROVIDE ALL LABOR AND MATERIALS FOR A COMPLETE INSTALLATION. WORK SHALL BE EXECUTED BY EXPERIENCED ELECTRICIANS WHO ARE LICENCED IN THE JURISDICTION WHERE THE PROJECT IS LOCATED.
4. PRIOR TO ORDERING ANY MATERIALS OR DOING ANY WORK, THE CONTRACTOR SHALL VERIFY DIMENSIONS AT THE SITE AND IMMEDIATELY REPORT ANY DISCREPANCIES TO THE RESIDENT ENGINEER. THE CONTRACTOR SHALL NOT PROCEED WITH ANY WORK UNTIL THE RESIDENT ENGINEER RENDERS A DECISION. NO EXTRA CHARGES OR COMPENSATION WILL BE ALLOWED FOR THE DIFFERENCES IN ACTUAL DIMENSIONS AND DIMENSIONS INDICATED ON THE DRAWINGS. THE ELECTRICAL CONTRACTOR SHALL COMPLY WITH ALL LICENSING REQUIREMENTS SET FORTH BY THE STATE REGISTRAR OF CONTRACTORS' OFFICE TO PERFORM WORK RELATING TO STREET LIGHT INSTALLATION IN MARICOPA COUNTY.
6. THE CONTRACTOR SHALL PROVIDE A UTILITY LOCATOR AND VERIFY THE ACTUAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ALL EXISTING UTILITIES IN PLACE UNLESS NOTED OR SPECIFIED OTHERWISE. ANY DAMAGE TO EXISTING UTILITIES SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
7. CONTRACTOR SHALL SUBMIT FOUR (4) COPIES OF MANUFACTURER'S CERTIFIED SHOP DRAWINGS FOR EQUIPMENT TO THE ENGINEER FOR REVIEW PRIOR TO ORDERING EQUIPMENT OR STARTING WORK.
8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO RESTORE ALL PROPERTY, LANDSCAPING, PAVING AND DRIVEWAYS THAT ARE DISTURBED DURING CONSTRUCTION TO THEIR ORIGINAL CONDITION.
9. THE PLANS SHOW THE GENERAL PATH AND LOCATION OF CONDUIT AND PULL BOXES IN RELATION TO MAJOR PHYSICAL FEATURES. THE CONTRACTOR SHALL NOTE THAT ELEMENT LOCATIONS ARE APPROXIMATE AND MAY CHANGE DURING CONSTRUCTION. THESE CHANGES MAY RESULT IN CHANGES TO CONDUIT LENGTHS ALONG WITH MINOR QUANTITY CHANGES.
10. CONTRACTOR SHALL STAKE ALL PROPOSED STREET LIGHT LOCATIONS AND OBTAIN APPROVAL FROM THE RESIDENT ENGINEER PRIOR TO ANY INSTALLATION ACTIVITIES.
11. HOLES, CAVITIES, TRENCHES, AND DEPRESSIONS RESULTING FROM THE REMOVAL OF STRUCTURES OR OBSTRUCTIONS, EXCEPT IN AREAS TO BE EXCAVATED, SHALL BE BACKFILLED WITH SUITABLE MATERIAL WHICH SHALL BE COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DENSITY AS DETERMINED BY ASTM D698, D-2922 AND D-3017. SURPLUS EXCAVATION MATERIALS SHALL BE LEGALLY DISPOSED OF BY THE CONTRACTOR.
12. ALL CONDUCTORS SHALL BE IDENTIFIED AT ALL PULL BOXES, LOAD CENTERS AND FIXTURES. ALL WIRING DEVICES SHALL HAVE A TAG ON BACK OF THE COVER PLATE IDENTIFYING THE PANEL AND CIRCUIT NUMBER FROM WHICH THEY ARE FED.
13. ELECTRICAL SYSTEMS SHALL BE GROUNDED AND BONDED PER ARTICLE 250 OF THE NATIONAL ELECTRICAL CODE. PROVIDE GROUND WIRE FOR EACH PIECE OF EQUIPMENT AND FOR EACH BRANCH CIRCUIT.
14. EACH STREET LIGHT POLE SHALL HAVE A 8' X 5/8" COPPER CLAD GROUND ROD DRIVEN BENEATH NEAREST PULL BOX. A #6 BARE COPPER LEAD FROM THE GROUND ROD IN PULL BOX TO LANDING LUG IN LIGHT POLE HAND HOLE IS REQUIRED.
15. FOR MATERIAL INSTALLED AND/OR WORK PREFORMED PRIOR TO APPROVAL, THE CONTRACTOR SHALL BE LIABLE FOR ITS REMOVAL AND REPLACEMENT AT NO ADDITIONAL COST IF IN THE OPINION OF THE ENGINEER, THE MATERIAL OR EQUIPMENT DOES NOT MEET THE INTENT OF THE PLANS AND/OR SPECIFICATIONS.
16. INSTALLATION OF EQUIPMENT, COMPONENTS, AND WIRING FOR ELECTRICAL SYSTEMS SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE EQUIPMENT MANUFACTURER.
17. CONTRACTOR SHALL BE RESPONSIBLE FOR DELIVERY, STORAGE, AND HANDLING OF ALL MATERIALS AND EQUIPMENT PRIOR TO FINAL ACCEPTANCE. ANY DAMAGED MATERIAL OR EQUIPMENT SHALL BE REPLACED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
18. ALL EQUIPMENT SHALL BE "UL" LISTED. LABEL OR LISTING OF UNDERWRITER'S LABORATORIES, INC. WILL BE ACCEPTED AS EVIDENCE THAT MATERIALS OR EQUIPMENT CONFORM TO APPLICABLE STANDARDS OF THAT AGENCY.
19. PRIOR TO ACCEPTANCE, THE CONTRACTOR SHALL ENERGIZE AND OPERATE THE ENTIRE LIGHTING SYSTEM, FROM SUNSET TO SUNRISE FOR TWO (2) CONSECUTIVE DAYS WITHOUT INTERRUPTION OR FAILURE. IF ANY EQUIPMENT OR MATERIAL SHOULD FAIL, IT SHALL BE REPLACED IMMEDIATELY AND RETESTED.
20. THE CONTRACTOR SHALL GUARANTEE ALL WORK FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE, AGAINST DEFECTS IN WORKMANSHIP, FAILURE, MALFUNCTION OF MATERIALS AND/OR EQUIPMENT. THIS GUARANTEE IS TO BE IN WRITING TO THE RESIDENT ENGINEER AT THE TIME OF ISSUING FINAL ACCEPTANCE. WORK FOUND TO BE DEFECTIVE WITHIN THE WARRANTY PERIOD SHALL BE REPLACED WITHOUT COST TO THE OWNER.
21. "AS-BUILT" DRAWING REQUIREMENTS SHALL CONSIST OF RECORDING, BY THE CONTRACTOR, ANY CHANGE OR DEVIATION ON A SET OF APPROVED PLANS. PLANS SHALL BE FURNISHED TO THE INSPECTOR AT THE COMPLETION OF THE PROJECT. CONTRACTOR SHALL COORDINATE INSPECTION WITH RESIDENT ENGINEER. FINAL PAYMENT SHALL NOT BE MADE UNTIL THE AS-BUILT PRINTS ARE ACCEPTED BY THE RESIDENT ENGINEER.
22. TRENCH, CONDUIT, AND PULL BOXES SHALL BE FURNISHED AND INSTALLED PER SRP STANDARD SPECIFICATIONS AND STANDARD DETAILS FOR PUBLIC IMPROVEMENTS, LATEST EDITION AND ANY APPROVED/ACCEPTED AMENDMENT OR REVISION.

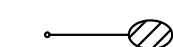
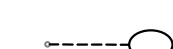

CONSTRUCTION NOTES:

- 1 Existing Foundation, Pole, and Fixture To Remain In Place.
- 2 Furnish & Install 133 Watt Type III LED Luminaire (Acuity ATBM-F-MVOLT-R30). 32' SRP Pole, 6' Radius SRP Mast Arm, And SRP Junction Box. Light Pole Per COA STD DET A1786-1. Mast Arm Per COA STD DET A1786-2. Light Pole Embedment Per COA STD DET A1787. Small Type Fixture, Gray Housing Color. Junction Box And Grounding Per COA STD DET A1790 And A1791. Install 1" Conduit From SRP Junction Box With (2) #12 AWG XHHW-2 Conductors and (1) #12 AWG XHHW-2 Ground To Pole.
- 3 Remove & Salvage Existing Pole, Fixture, Pull Box & Conductors, Abandon Conduit In Place, & Remove Existing Foundation Completely.

ACRONYM/ABBREVIATION DESCRIPTIONS

HPS	HIGH-PRESSURE SODIUM
LED	LIGHT EMITTING DIODE
MAG	MARICOPA ASSOCIATION OF GOVERNMENTS
N.T.S.	NOT TO SCALE
PVC	POLYVINYL CHLORIDE
SRP	SALT RIVER PROJECT
STD	STANDARD
TDM	TECHNICAL DESIGN MANUAL

LEGEND

-  PROPOSED LED STREET LIGHT - TYPE III
-  EXISTING LED FIXTURE AND POLE TO REMAIN
-  EXISTING LED FIXTURE AND POLE TO BE REMOVED

DRAWN BY:	DA
DESIGNED BY:	DA
CHECKED BY:	MAC
SHEET DWG:	SLO1
DRAWING HORIZ SCALE(S):	N.T.S.
VERT. SCALE(S):	N.T.S.

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SHEET TYPE: STREET LIGHTING GENERAL NOTES AND LEGEND
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

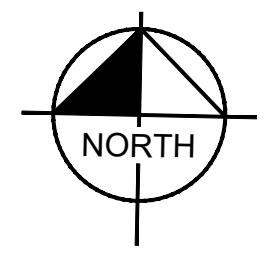
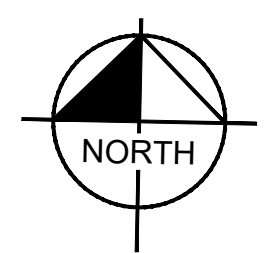
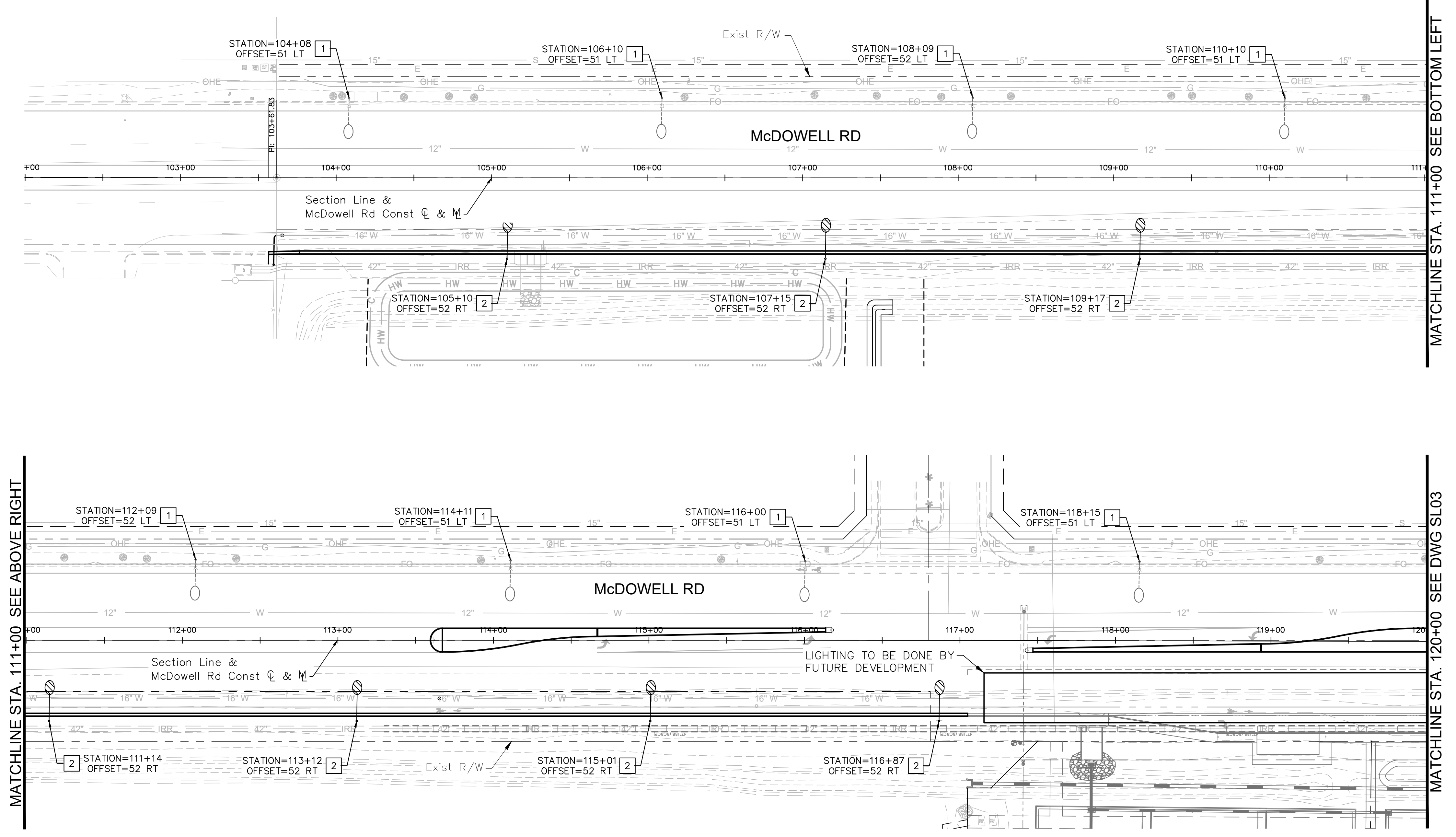
PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE: - - -

SHEET NUMBER: 42 OF 84
 PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David Street Set: McDowell Road Layout: SLO2 October 10, 2018 04:27:52pm k:\Pix_Roadway\191323121-107th Avenue and McDowell Road\Card\12-Sheets\Lighting\191323121-SLO2.dwg



CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNIT
1	Existing Foundation, Pole, and Fixture To Remain In Place.	8	EA
2	Furnish & Install 133 Watt Type III LED Luminaire (Acuity ATBM-F-MVOLT-R30). 32' SRP Pole, 6' Radius SRP Mast Arm, And SRP Junction Box. Light Pole Per COA STD DET A1786-1. Mast Arm Per COA STD DET A1786-2. Light Pole Embedment Per COA STD DET A1787. Small Type Fixture, Gray Housing Color. Junction Box And Grounding Per COA STD DET A1790 And A1791. Install 1" Conduit From SRP Junction Box With (2) #12 AWG XHHW-2 Conductors and (1) #12 AWG XHHW-2 Ground To Pole.	7	EA
3	Remove & Salvage Existing Pole, Fixture, Pull Box & Conductors, Abandon Conduit In Place, & Remove Existing Foundation Completely.	0	EA

DA	DA	MAC	SLO2
DRAWN BY:	DESIGNED BY:	CHECKED BY:	SHEET DWG:
			DRAWING HORZ: 1"=40'
			SCALE(S) VERT: 1"=2'

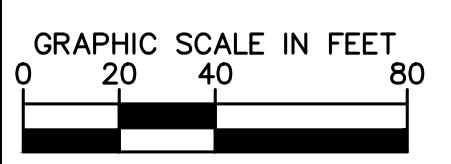
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Phoenix, Arizona 85020 (602) 944-5500

STREET LIGHTING PLANS
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

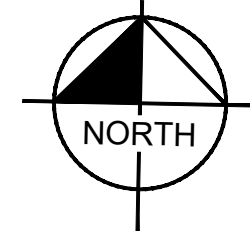
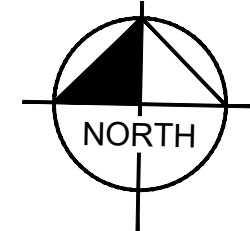
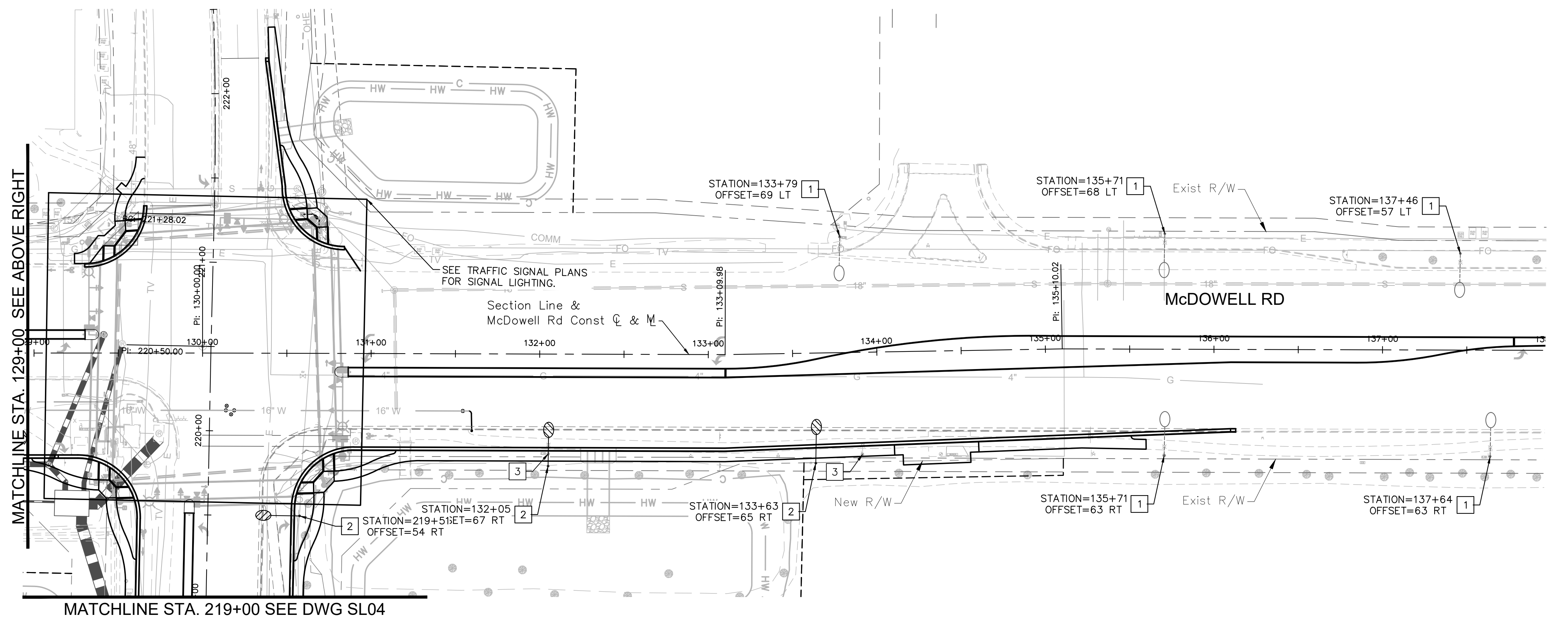
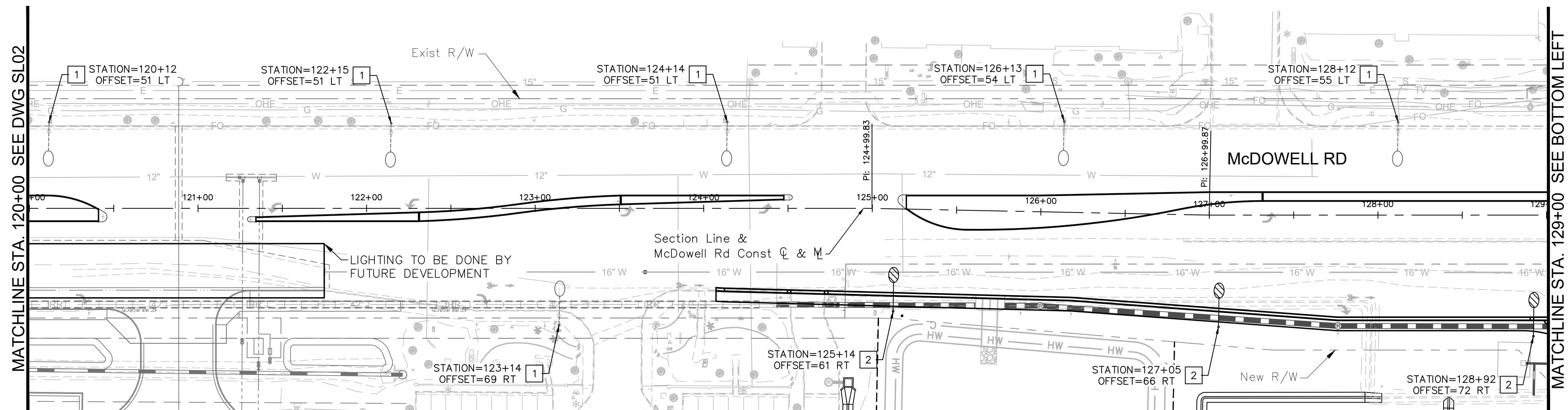
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
LATEST REVISION DATE

SHEET NUMBER
43 OF 84
PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Street Set: McDowell Road Layout: SL03 October 10, 2018 04:28:16pm K:\PHX_Roadway\191323121_107th Avenue and McDowell Road\Cadd\12-Sheets\Lighting\191323121-SL03.dwg



CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	EA
1	Existing Foundation, Pole, and Fixture To Remain In Place.	11	EA
2	Furnish & Install 133 Watt Type III LED Luminaire (Acuity ATBM-F-MVOLT-R30). 32' SRP Pole, 6' Radius SRP Mast Arm, And SRP Junction Box. Light Pole Per COA STD DET A1786-1. Mast Arm Per COA STD DET A1786-2. Light Pole Embedment Per COA STD DET A1787. Small Type Fixture, Gray Housing Color. Junction Box And Grounding Per COA STD DET A1790 And A1791. Install 1" Conduit From SRP Junction Box With (2) #12 AWG XHHW-2 Conductors and (1) #12 AWG XHHW-2 Ground To Pole.	6	EA
3	Remove & Salvage Existing Pole, Fixture, Pull Box & Conductors, Abandon Conduit In Place, & Remove Existing Foundation Completely.	2	EA

DRAWN BY:	DA
DESIGNED BY:	DA
CHECKED BY:	MAC
SHEET DWG:	SLO3
DRAWING HORIZ SCALE:	1"=40'
DRAWING VERT. SCALE:	N.T.S.

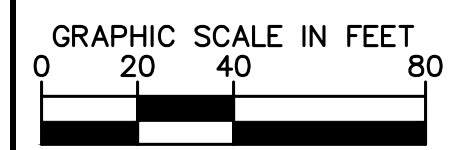
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 7740 North 16th Street, Suite 300
 Phoenix, Arizona 85020 (602) 944-5500

STREET LIGHTING PLANS
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

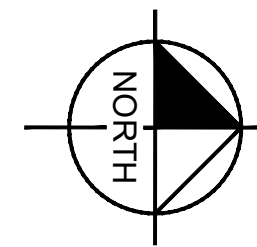
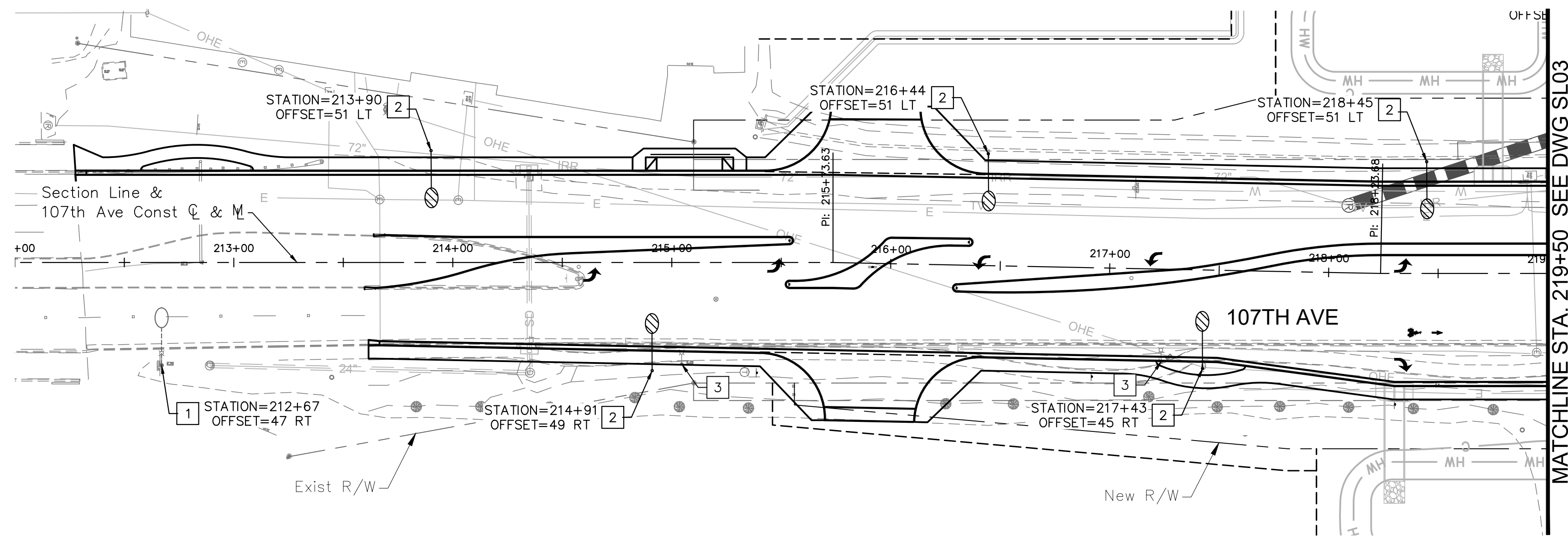
PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE: -

SHEET NUMBER: 44 OF 84
 PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David - Sheet Set: McDowell Road - Layout: SL04 - October 10, 2018 04:28:31pm - k:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road\Cadd\12-Sheets\Lighting\191323121-SL04.dwg



MATCHLINE STA. 219+50 SEE DWG SL03

CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	EA
1	Existing Foundation, Pole, and Fixture To Remain In Place.	1	EA
2	Furnish & Install 133 Watt Type III LED Luminaire (Acuity ATBM-F-MVOLT-R30). 32' SRP Pole, 6' Radius SRP Mast Arm, And SRP Junction Box. Light Pole Per COA STD DET A1786-1. Mast Arm Per COA STD DET A1786-2. Light Pole Embedment Per COA STD DET A1787. Small Type Fixture, Gray Housing Color. Junction Box And Grounding Per COA STD DET A1790 And A1791. Install 1" Conduit From SRP Junction Box With (2) #12 AWG XHHW-2 Conductors and (1) #12 AWG XHHW-2 Ground To Pole.	5	EA
3	Remove & Salvage Existing Pole, Fixture, Pull Box & Conductors, Abandon Conduit In Place, & Remove Existing Foundation Completely.	2	EA

DRAWN BY:	DA
DESIGNED BY:	DA
CHECKED BY:	MAC
SHEET DWG:	SL04
DRAWING HORIZ SCALE:	1"=40'
DRAWING VERT. SCALE:	N.T.S.

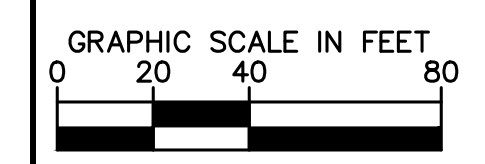
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 7740 North 16th Street, Suite 300
 Phoenix, Arizona 85020 (602) 944-5500

SHEET TYPE: **STREET LIGHTING PLANS**
 PROJECT NAME: **107TH AVENUE & MCDOWELL ROAD INTERSECTION**
 PROJECT NUMBER: **ST1224**

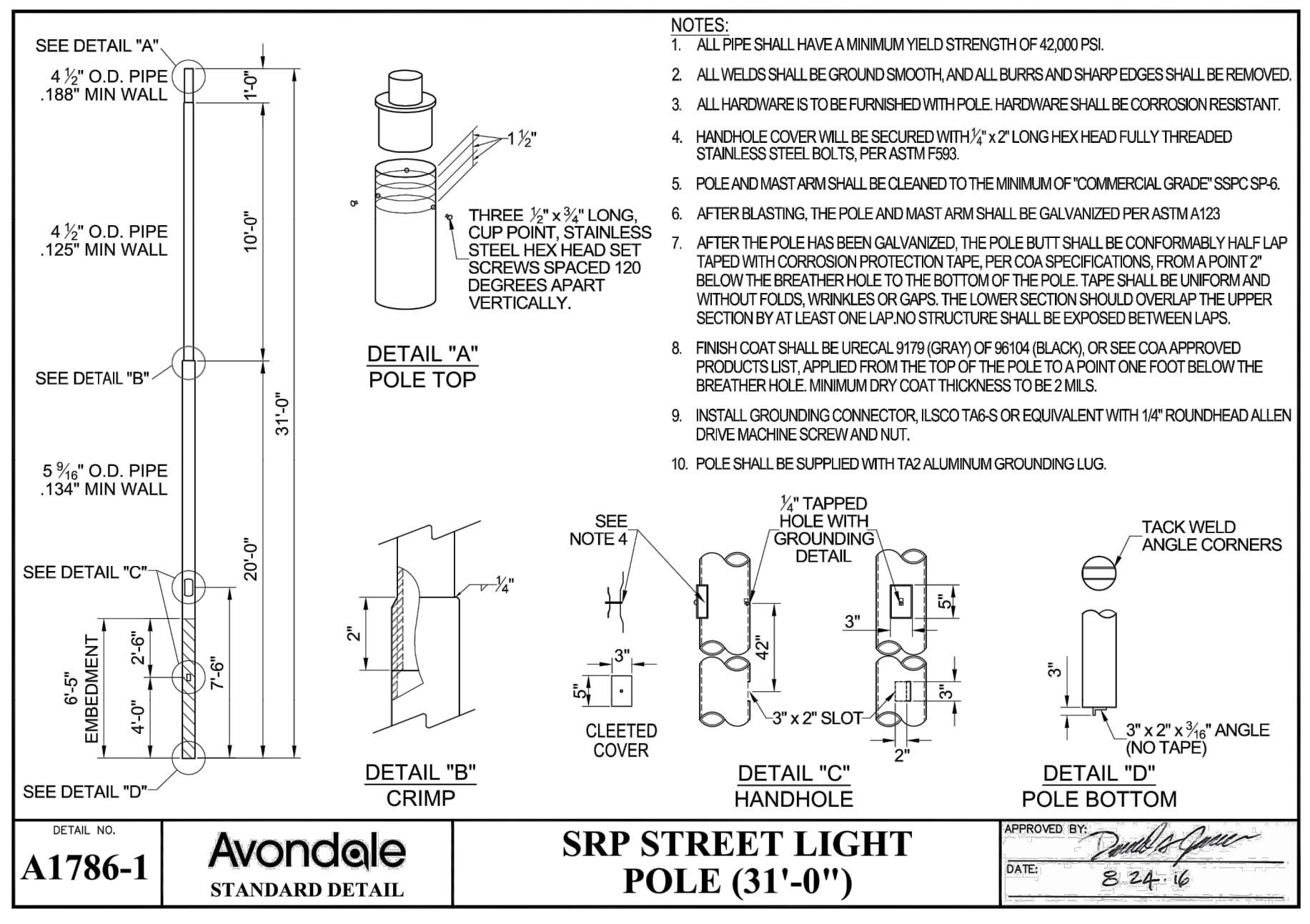
PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

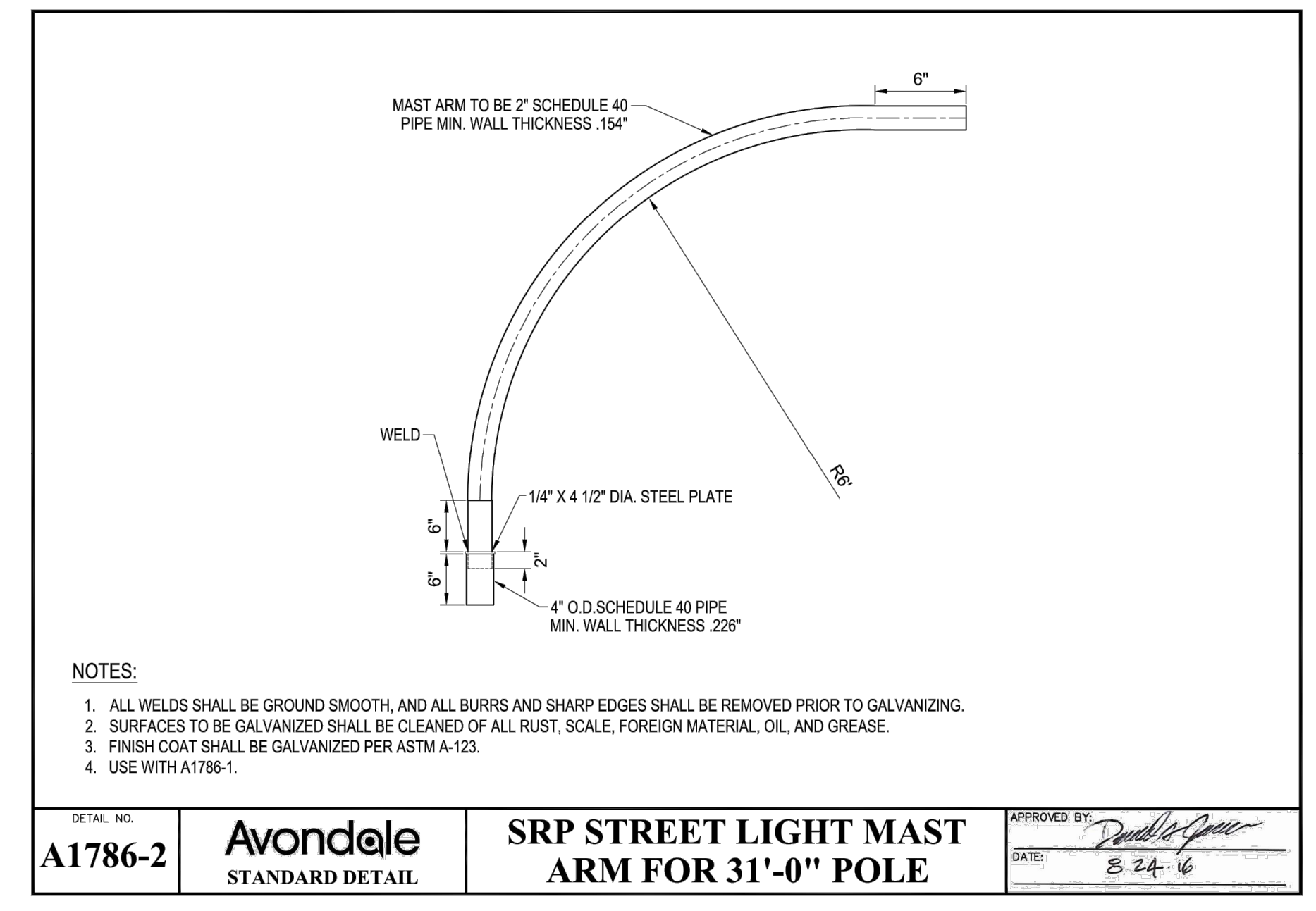
SHEET NUMBER
45 OF 84
 PROJECT NUMBER
ST1224



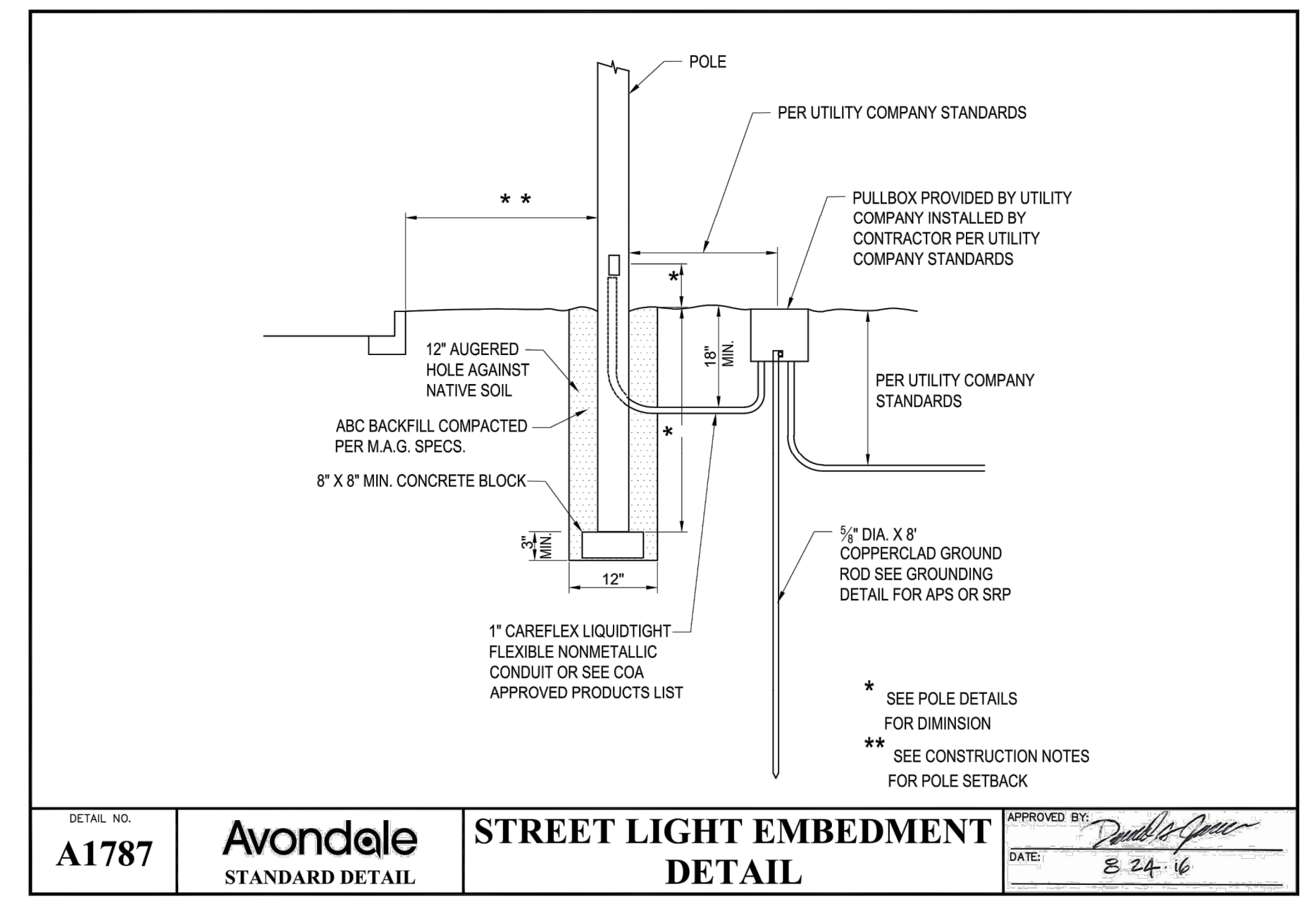
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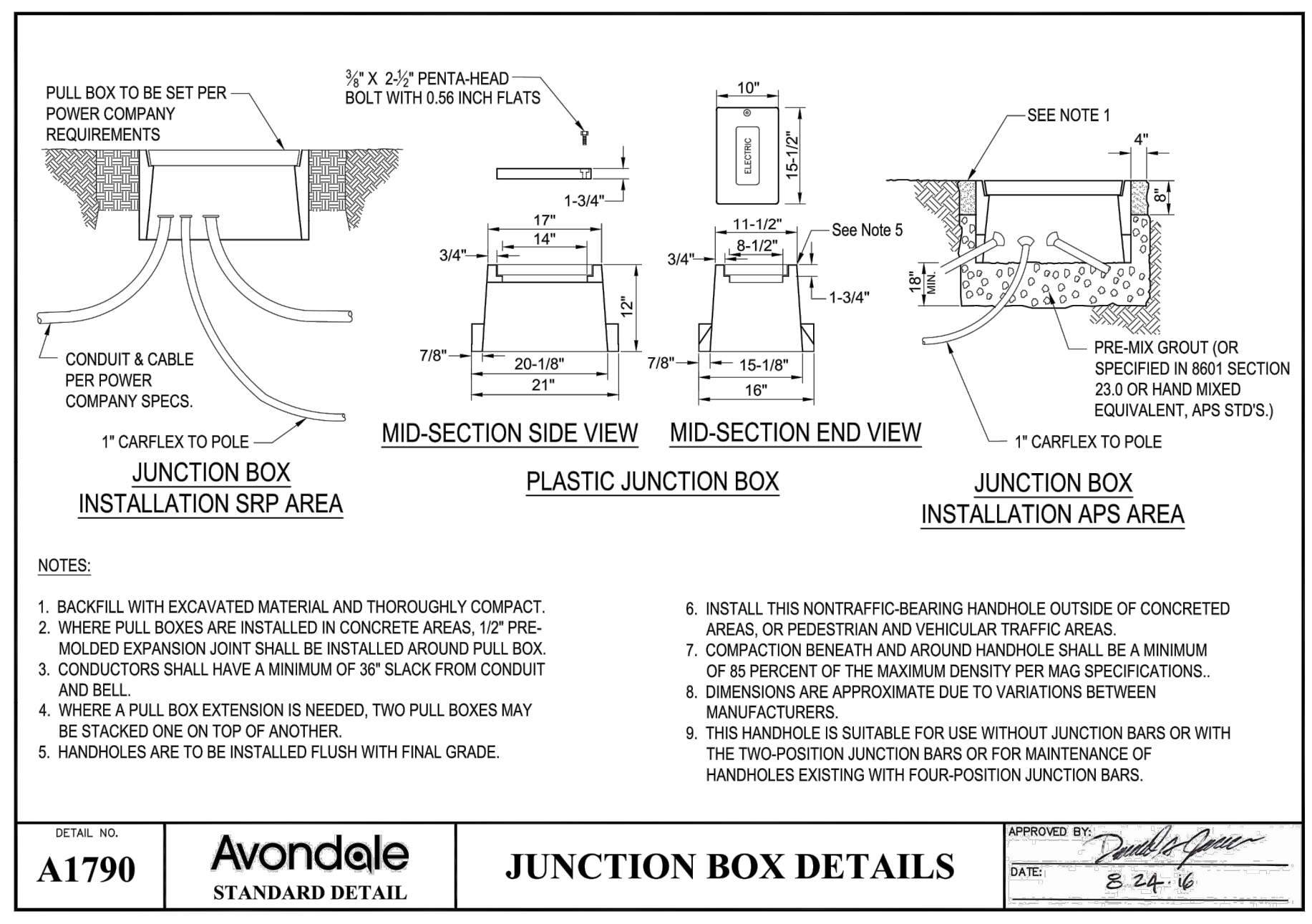
A SRP STREET LIGHT POLE DETAIL
NOT TO SCALE



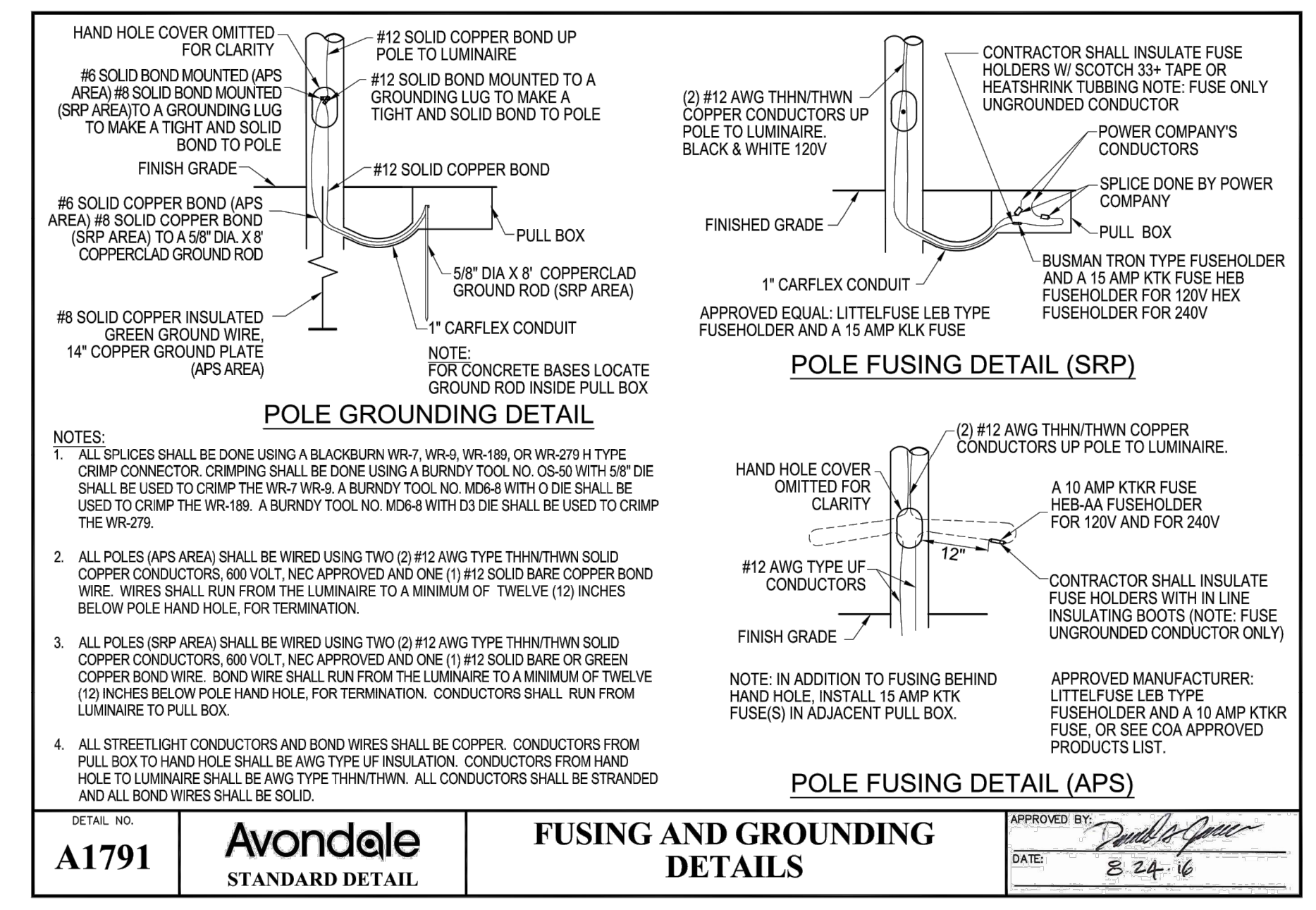
B SRP STREET LIGHT MAST ARM DETAIL
NOT TO SCALE



C STREET LIGHT EMBEDMENT DETAIL
NOT TO SCALE



D JUNCTION BOX DETAIL
NOT TO SCALE



E FUSING AND GROUNDING DETAIL
NOT TO SCALE

DRAWN BY:	DA
DESIGNED BY:	DA
CHECKED BY:	MAC
SHEET DWG:	SLO5
DRAWING HORIZ:	N.T.S.
SCALE:	VERT. N.T.S.

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ELECTRICAL AND LIGHTING DETAILS
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: - - -

SHEET NUMBER: 46 OF 84
PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David Street: Set: McDowell Road Layout: SLO6 October 10, 2018 04:28:01pm K:\PHX - Roadway\191323121 - 107th Avenue and McDowell Road\Cadd\12-Sheets\Lighting\191323121-SLO6.dwg



Consistent with LEED® goals & Green Globes® criteria for light pollution reduction

Autobahn Series ATBM Roadway

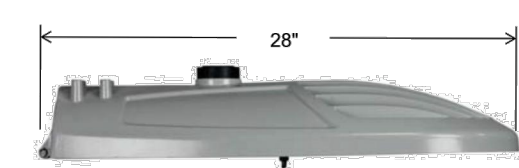
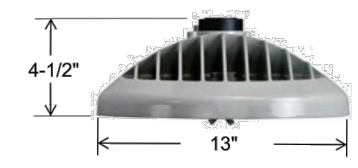
PRODUCT OVERVIEW



Applications:

- Residential streets
- Parking lots
- High speed roadways

DIMENSIONS



Effective Projected Area (EPA)
The EPA for the ATBM is 0.3 sq. ft.
Approx. Wt. = 21 lbs. (9.5 kg)

STANDARDS

DesignLights Consortium® (DLC) qualified product. Not all versions of this product may be DLC qualified. Please check the DLC Qualified Products List at www.designlights.org/DQL to confirm which versions are qualified.

Color temperatures of ≤ 3000K must be specified for International Dark-Sky Association certification.

Rated for -40°C to 40°C ambient
CSA Certified to U.S. and Canadian standards
Complies with ANSI: C136.2, C136.10, C136.14, C136.31, C136.15, C136.37

Roadway Lighting ATBM

Note: Specifications subject to change without notice.



Features:

OPTICAL

Same Light: Performance is comparable to 150W – 250W HPS

White Light: Correlated color temperature - 4000K, 70 CRI minimum, 3000K, 70 CRI minimum or optional 5000K, 70 CRI minimum.

IP66 rated borosilicate glass optics ensure longevity and minimize dirt depreciation. Unique IP66 rated LED light engines provide 0% uplight and restrict backlight to within sidewalk depth, providing optimal application coverage and optimal pole spacing.

Available distributions are Type II, III, IV, & V roadway distributions.

ELECTRICAL

Expected Life: LED light engines are rated >100,000 hours at 25°C L70.

Electronic driver has an expected life of 100,000 hours at a 25°C ambient.

Lower Energy: Saves an expected 40-60% over comparable HID luminaires.

Robust Surge Protection: Three different surge protection options provide a minimum of ANSI C136.2 10kV/5kA protection. 20kV/10kA surge protection is also available.

MECHANICAL

Includes standard AEL lineman-friendly features such as tool-less entry, 3 station terminal block and quick disconnects. Bubble level located inside the electrical compartment for easy leveling at installation.

Rugged die-cast aluminum housing and door are polyester powder-coated for durability and corrosion resistance. Rigorous five-stage pre-treating and painting process yields a finish that achieves a scribe creepage rating of 8 (per ASTM D1654) after over 5000 hours exposure to salt fog chamber (operated per ASTM B117).

Mast arm mount is adjustable for arms from 1-1/4" to 2" (1-5/8" to 2-3/8" O.D.) diameter. The 2 – bolt and optional 4 bolt clamping mechanism provide 3G vibration rating per ANSI C136. The Wildlife shield is cast into the housing (not a separate piece).

CONTROLS

NEMA 3 pin photocontrol receptacle is standard, with the Acuity designed ANSI standard 5 pin and 7 pin receptacles optionally available.

Premium solid state locking-style photocontrol – PCSS (10 year rated life) Extreme long life solid state locking-style photocontrol – PCL1 (20 year rated life).

Extreme long life solid state locking-style photocontrol with on demand remote on/off control - PCCC (15 year rated life).

Optional onboard Adjustable Output module allows the light output and input wattage to be modified to meet site-specific requirements, and also can allow a single fixture to be flexibly applied in many different applications.

ORDERING INFORMATION

Example: ATBM A MVOLT R2

Series	Performance Packages	Voltage	Optics	Mounting
ATBM Autobahn LED Roadway	A 7,000 lumens B 8,000 lumens C 9,000 lumens D 11,600 lumens E 13,400 lumens F 15,700 lumens G 16,600 lumens H 17,400 lumens	MVOLT Multi-volt, 120-277V 347 347V 480 480V	R2 Roadway Type II R3 Roadway Type III R4 Roadway Type IV R5 Roadway Type V	(Blank) 2 Bolt Mounting 4B 4 Bolt Mounting

Options

Color Temperature (CCT)	Control Options	Accessories
(Blank) 4000K CCT, 70 CRI Min. 3K 3000K CCT, 70 CRI Min. 5K 5000K CCT, 70 CRI Min.	(Blank) 3 Pin NEMA Photocontrol Receptacle P5 5 Pin Photocontrol Receptacle (dimmmable driver included) ¹ P7 7 Pin Photocontrol Receptacle (dimmmable driver included) ² NR No Photocontrol Receptacle ² AO Field Adjustable Output ⁴ DM 0-10V Dimmable Driver ⁵ PCSS Solid-State Lighting Photocontrol ⁶ PCLL Solid-State Long Life Photocontrol with remote control on/off ⁷ PCCC Solid-State Long Life Photocontrol with remote control on/off ⁷ SH Shorting Cap	ATBMHSS House Side Shield ATBMLTS Light Trespass Shield RKATBMVOLTSPD ATBM Acuity SPD Replacement Kit MVOLT RKATBMHVSPD ATBM Acuity SPD Replacement Kit 347/480V RKATBMVOLTMP ATBM MOV Pack Replacement Kit RKATBMVOLTIL ATBM IL SPD Replacement Kit
Paint (Blank) Gray BK Black BZ Bronze DOB Dark Bronze GI Graphite WH White	Surge Protection (Blank) Acuity SPD Z0 20kV/10kA SPD ⁸ MP MOV Pack ¹ IL SPD with Indicator Light ¹	Packages (Blank) Standard Pack JP Job Pack (36/pallet)
Miscellaneous Options HSS House Side Shield NL NEMA Label Indicating Wattage XL Not CSA Certified – No Terminal Block Cover		

Notes:

- 1 Not available with G and H performance packages.
- 2 Dimmable Driver included. Not available with DM or NR.
- 3 Not available with P5, P7.
- 4 Not available with DM.
- 5 Controls by others. Not available with AO.
- 6 MVOLT only.
- 7 Not available with PCSS or PCLL.
- 8 Not available with G & H packages at 347/480 volts.



Warranty Five-year limited warranty. Complete warranty terms located at: www.aelbybrands.com/CustomersResources/terms_and_conditions.aspx
Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.
Please contact your sales representative for the latest product information.

ATBM

Autobahn Series ATBM Roadway

PERFORMANCE PACKAGE

Performance Package	Distribution	4000 K CCT			LLD @ 25° C		
		Lumens	Input Watts	LPW	50K Hours	75K Hours	100K Hours
A	R2	7,114	60	118	89	84	80
	R3	7,024		117			
	R4	6,958		116			
	R5	7,469		124			
	(Blank)						
B	R2	8,090	70	115	89	84	80
	R3	8,016		114			
	R4	7,924		113			
	R5	8,528		121			
	(Blank)						
C	R2	9,031	81	112	89	84	80
	R3	8,942		111			
	R4	8,827		110			
	R5	9,517		118			
	(Blank)						
D	R2	11,769	95	124	90	87	84
	R3	11,690		123			
	R4	11,534		121			
	R5	12,388		130			
	(Blank)						
E	R2	13,601	115	118	90	87	84
	R3	13,416		117			
	R4	13,323		116			
	R5	14,263		124			
	(Blank)						
F	R2	15,932	133	120	90	86	83
	R3	15,741		118			
	R4	15,476		116			
	R5	16,691		125			
	(Blank)						
G	R2	17,102	150	114	90	86	83
	R3	16,974		113			
	R4	16,635		111			
	R5	17,338		119			
	(Blank)						
H	R2	18,085	164	111	90	86	83
	R3	17,929		110			
	R4	17,439		107			
	R5	18,966		116			
	(Blank)						

Note: Information shown above is based on 4000K nominal system data. Individual fixture performance may vary. Specifications subject to change without notice.



Warranty Five-year limited warranty. Complete warranty terms located at: www.aelbybrands.com/CustomersResources/terms_and_conditions.aspx
Actual performance may differ as a result of end-user environment and application. Specifications subject to change without notice.
Please contact your sales representative for the latest product information.

ATBM

A STREET LIGHT FIXTURE DETAIL NOT TO SCALE

DRAWN BY:	DA
DESIGNED BY:	DA
CHECKED BY:	MAC
SHEET DWG:	SLO6
DRAWING HORZ:	N.T.S.
SCALE(S):	VERT. N.T.S.

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ELECTRICAL AND LIGHTING DETAILS
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER
ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE

SHEET NUMBER
47 OF 84
PROJECT NUMBER
ST1224



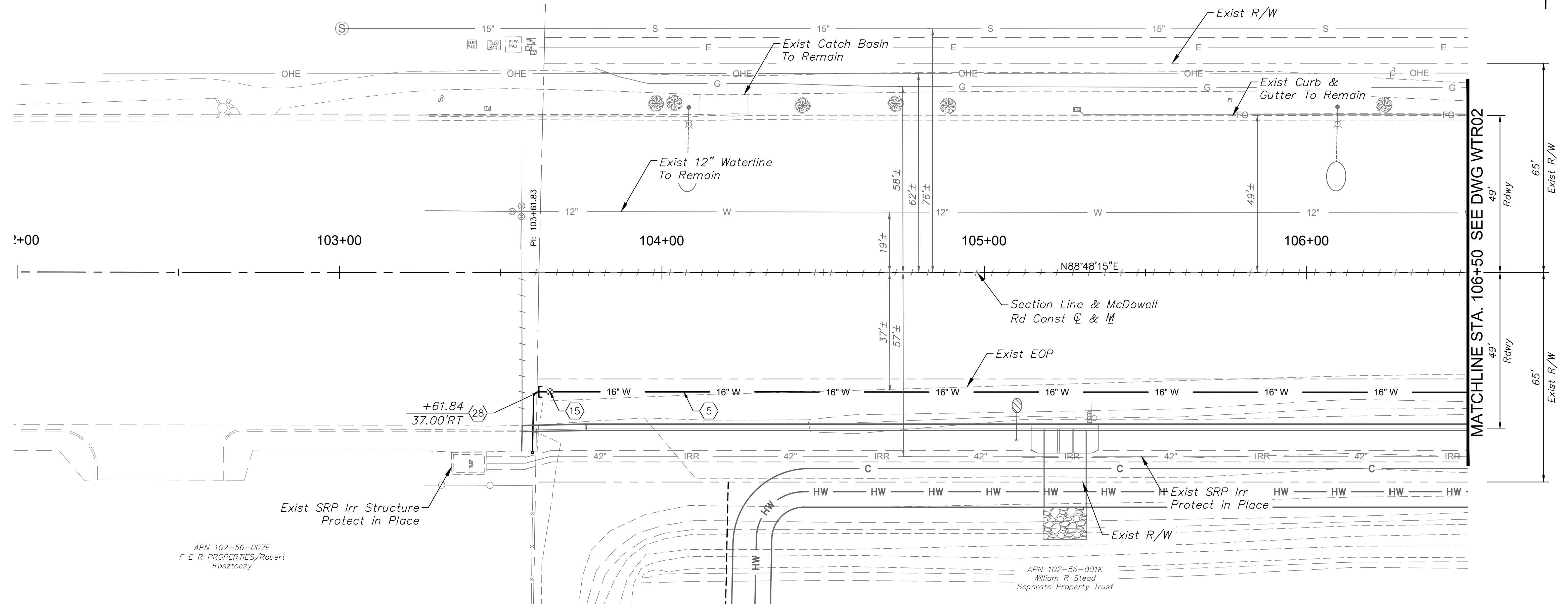
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APN 102-30-854
Crystal Point HOA

APN 102-30-278
Crystal Gardens HOA

APN 102-56-007E
F E R PROPERTIES/Robert Rosztocky

APN 102-56-001K
William R Stead
Separate Property Trust



CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
5	16" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	288 LF
15	16" Double Disk Gate Valve Per AWWA C550 & Valve Box Per MAG Dtl 391-1	1 EA
28	Curb Stop with Flushing Pipe Per MAG Dtl 390, Type 'A'	1 EA

DRAWN BY:	DESIGNED BY:	CHECKED BY:	SHEET DWG:	DRAWING HORIZ:	SCALE(S):
CKT	JDF	REL	WTR01	1"=20'	1"=2'

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SHEET TYPE: WATER LINE PLAN & PROFILE
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PROFILES TO BE ADDED
FOR 90% SUBMITTAL

- SHEET NOTES**
- See Sheet PP01 for Paving Plan.
 - See Sheet RB01 for Drainage Plan
 - See Sheet SM02 for Signing & Striping Plan.
 - See DWG PI01 for Private Irrigation Plan.
 - See Sheet SL02 for Lighting Plan.

PRELIMINARY
60%
NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

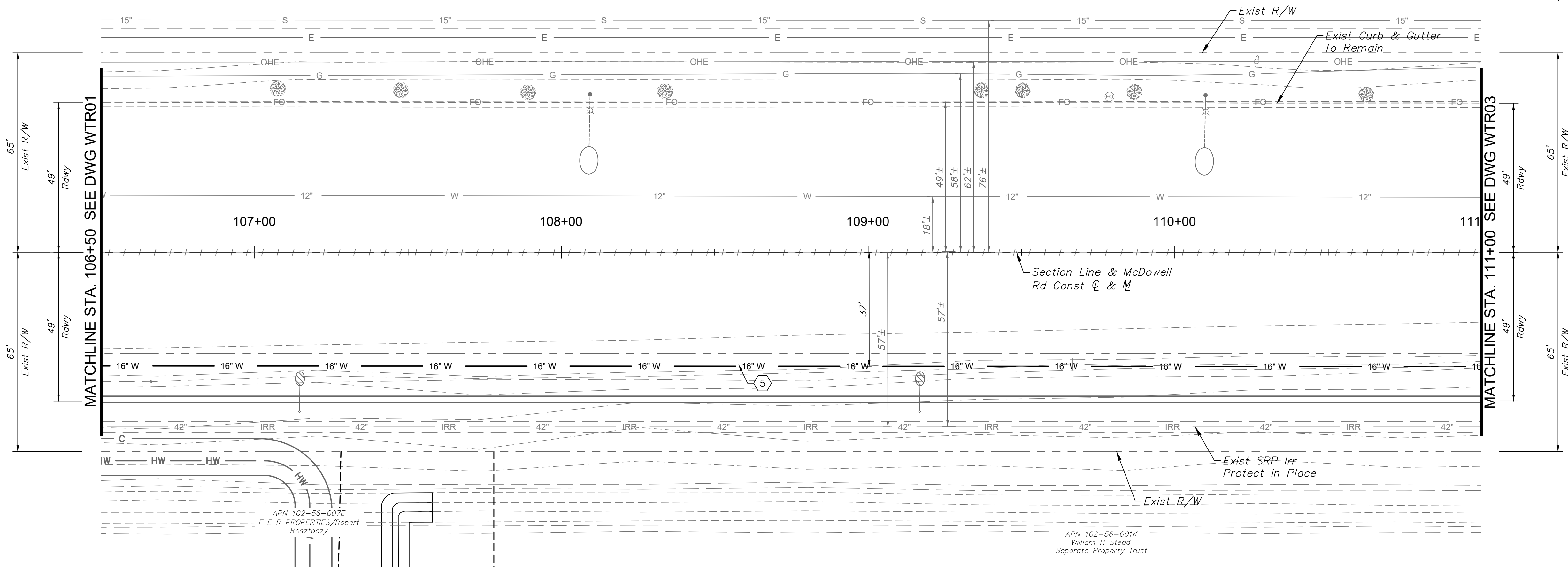
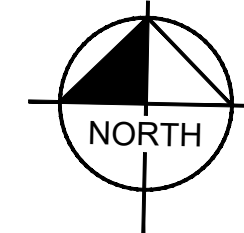
SHEET NUMBER
48 OF 84

PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David - Sheet: McDowell Road - Layout: WTR02 - October 10, 2018 04:29:44pm k:\PHK_Roadway\191323121 - 107th Avenue and McDowell Road\Cadd\12-Sheets\Utilities\191323121-WTR02.dwg

APN 102-30-278
Crystal Gardens HOA



CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
5	16" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	450 LF

DRAWN BY:	CKT
DESIGNED BY:	JDF
CHECKED BY:	KAC
SHEET DWG:	WTR02
DRAWING HORIZ:	1"=20'
SCALE(S) VERT:	1"=2'

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SHEET TYPE: WATERLINE PLAN AND PROFILE
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PROFILES TO BE ADDED
FOR 90% SUBMITTAL

- SHEET NOTES
1. See Sheet PP02 for Paving Plan.
 2. See Sheet SM03 for Signing & Striping Plan.
 3. See DWG PI01 for Private Irrigation Plan.
 4. See Sheet SL02 for Lighting Plan.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

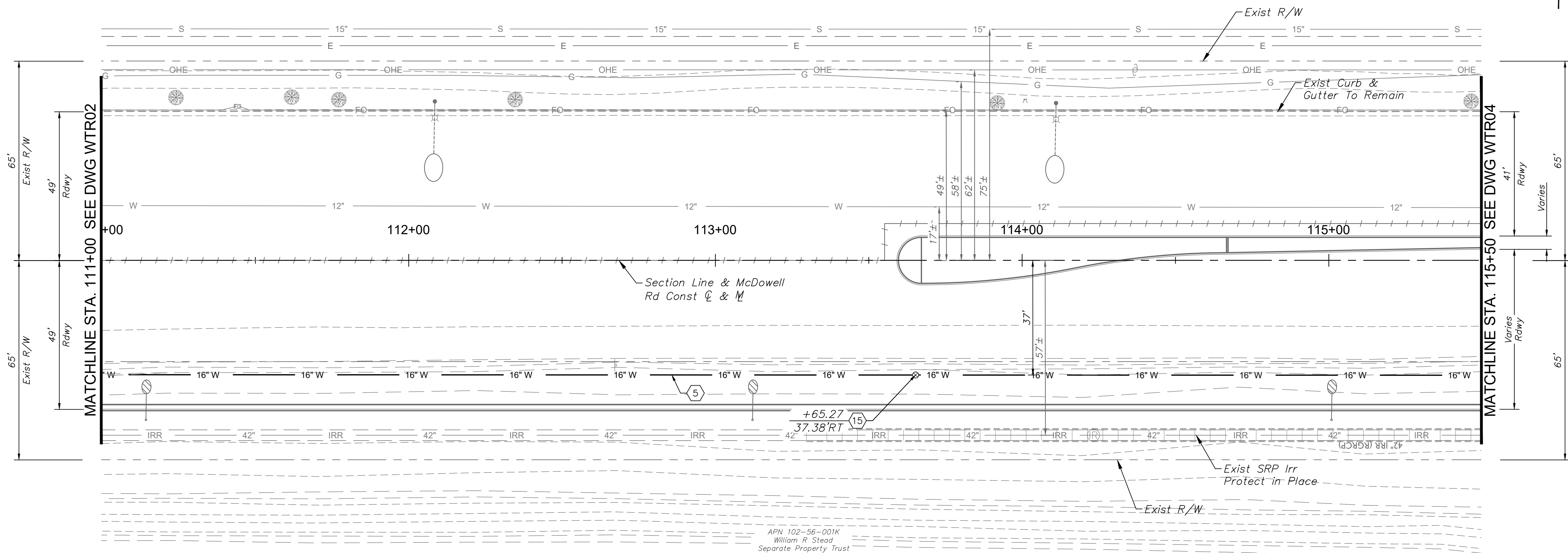
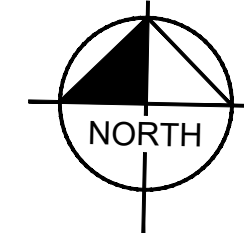
ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
49 OF 84

PROJECT NUMBER
ST1224



APN 102-30-278
Crystal Gardens HOA



APN 102-56-001K
William R Stead
Separate Property Trust

CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNIT
5	16" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	450	LF
15	16" Double Disk Gate Valve Per AWWA C550 & Valve Box Per MAG Dtl 391-1	1	EA

DRAWN BY:	CKT
DESIGNED BY:	JDF
CHECKED BY:	REL
SHEET DWG:	WTR03
DRAWING HORIZ:	1"=20'
SCALE(S) VERT:	1"=2'

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SHEET TYPE: WATERLINE PLAN AND PROFILE
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

SHEET NOTES

1. See Sheet PP03 for Paving Plan.
2. See Sheet SM03 for Signing & Striping Plan.
3. See DWG RI01 for Private Irrigation Plan.
4. See Sheet SL02 for Lighting Plan.

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
50 OF 84

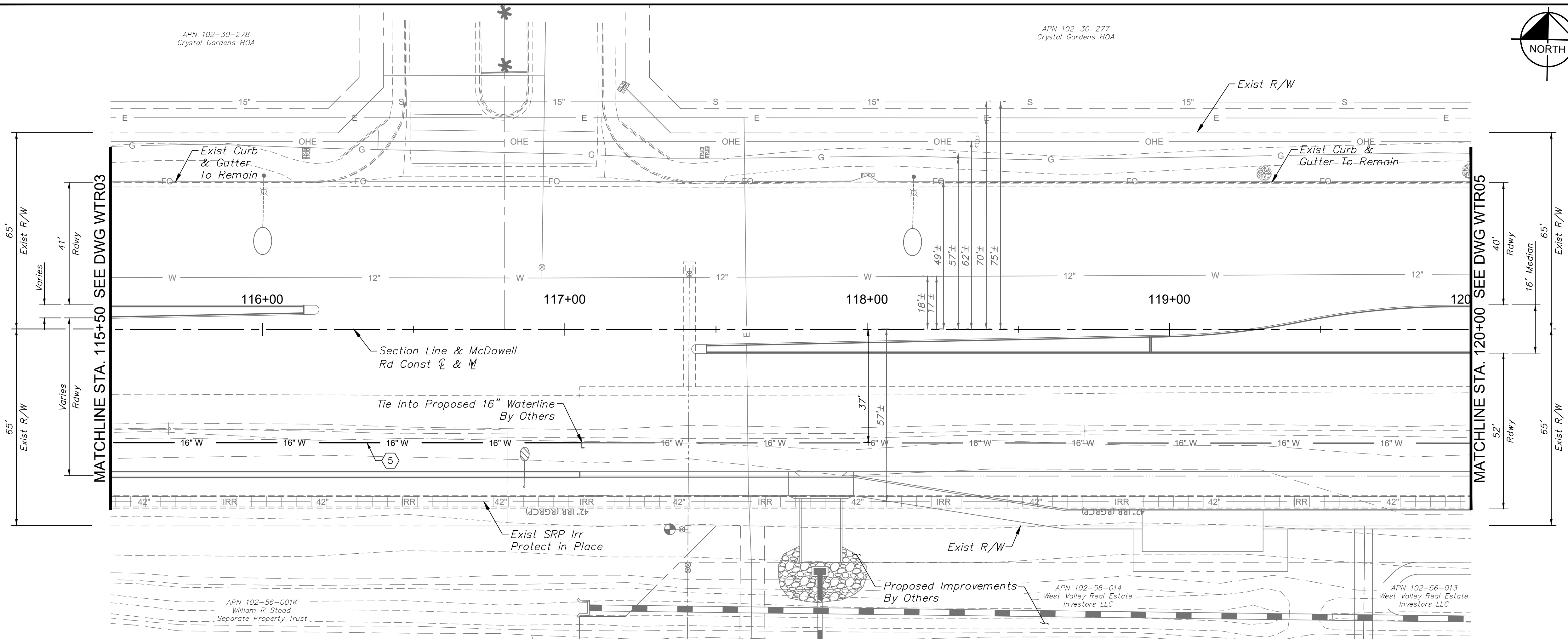
PROJECT NUMBER
ST1224



PROFILES TO BE ADDED
FOR 90% SUBMITTAL

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Plotted By: Rodriguez, David Sheet Set: McDowell Road Layout: WTR04 October 10, 2018 04:30:23pm K:\PHK_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Utilities\191323121-WTR04.dwg



PROFILES TO BE ADDED
FOR 90% SUBMITTAL

CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
5	16" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	166 LF

DRAWN BY: CKT		DESIGNED BY: JDF	CHECKED BY: REL	SHEET DWG: WTR04	DRAWING HORZ: 1"=20'	SCALE(S) VERT: 1"=2'
WATERLINE PLAN AND PROFILE 107TH AVENUE & MCDOWELL ROAD INTERSECTION PROJECT NUMBER: ST1224						

SHEET NOTES	
1.	See Sheet PP04 for Paving Plan.
2.	See Sheet SM04 for Signing & Striping Plan.
3.	See DWG PI01 for Private Irrigation Plan.
4.	See Sheet SL02 for Lighting Plan.

PRELIMINARY
60%
NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
- - -

SHEET NUMBER
51 OF 84

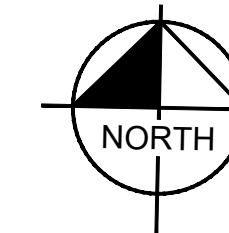
PROJECT NUMBER
ST1224



APN 102-30-278
Crystal Gardens HOA

APN 102-30-277
Crystal Gardens HOA

APN 102-30-852A
Crystal Gardens
Properties LLC



CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNIT
5	16" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	275	LF
15	16" Double Disk Gate Valve Per AWWA C550 & Valve Box Per MAG Dtl 391-1	1	EA

DRAWN BY:	JDF
DESIGNED BY:	JDF
CHECKED BY:	REL
SHEET DWG:	WTR05
DRAWING HORIZ:	1"=20'
SCALE:	VERT. 1"=2'

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WATERLINE PLAN AND PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER
ST1224

SHEET NOTES

1. See Sheet PP05 for Paving Plan.
2. See Sheet RB02 for Drainage Plan
3. See Sheet SM04 for Signing & Striping Plan.
4. See DWG PI01 for Private Irrigation Plan.
5. See Sheet SL03 for Lighting Plan.

PRELIMINARY
60%
NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE

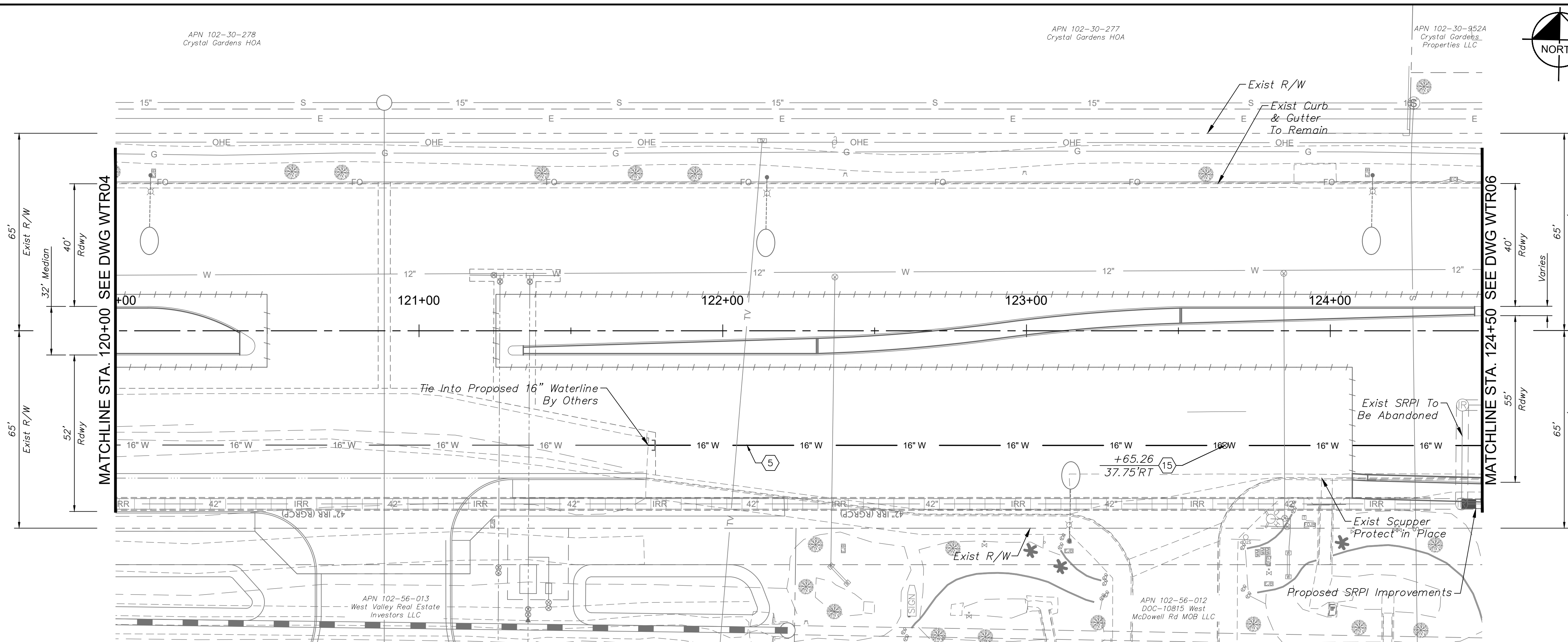
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52 OF 84

PROJECT NUMBER
ST1224

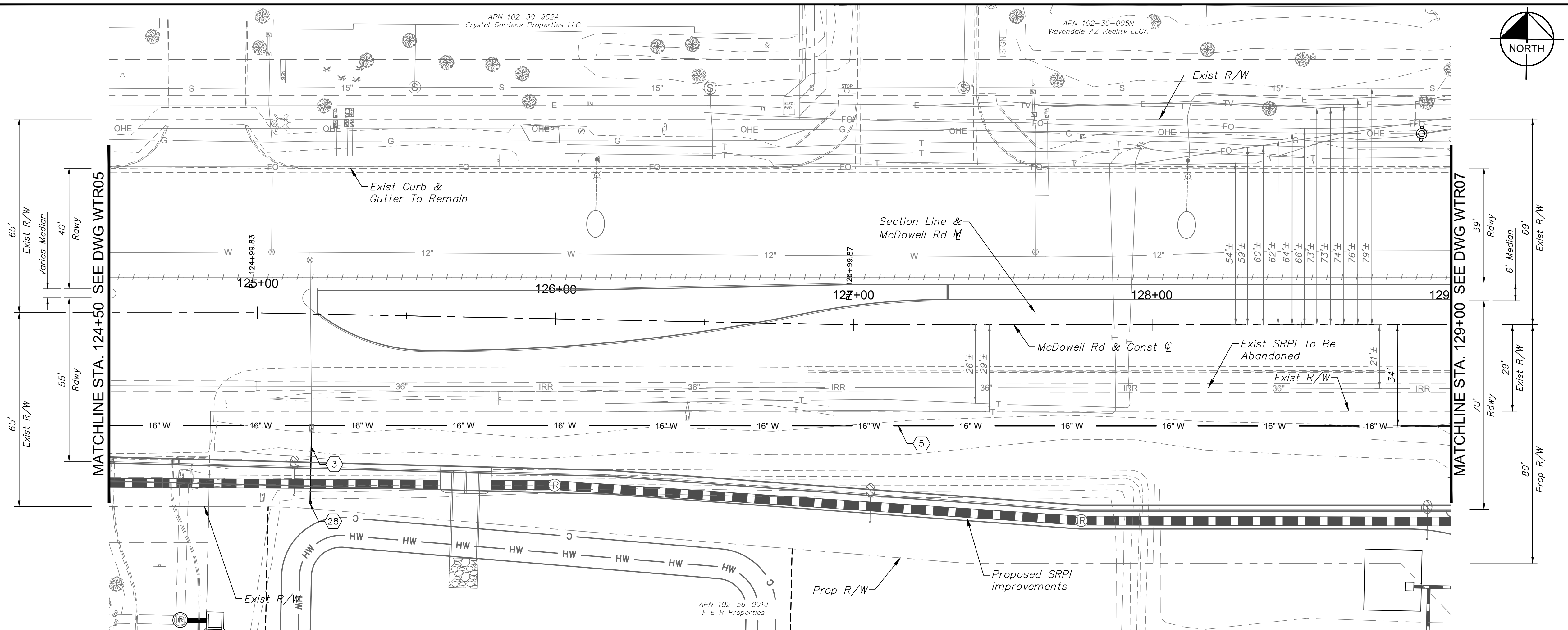


PROFILES TO BE ADDED
FOR 90% SUBMITTAL

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Plotted By: Rodriguez, David Sheet: McDowell Road Layout: WTR06 October 10, 2018 04:31:03pm K:\PHX_Roadway\191323121 -107th Avenue and McDowell Road\Road\Gadd\12 - Sheets\Utilities\191323121 - WTR06.dwg



CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
3	6" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	26 LF
5	16" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	450 LF
28	Curb Stop with Flushing Pipe Per MAG Dtl 390, Type 'A'	1 EA

DRAWN BY:	JDF
DESIGNED BY:	JDF
CHECKED BY:	REL
SHEET DWG:	WTR06
DRAWING HORIZ:	1"=20'
SCALE(S) VERT:	1"=2'

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WATERLINE PLAN AND PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: **ST1224**

PROFILES TO BE ADDED
 FOR 90% SUBMITTAL

- SHEET NOTES**
1. See Sheet PP06 for Paving Plan.
 2. See Sheet RB02 for Drainage Plan
 3. See Sheet SM05 for Signing & Striping Plan.
 4. See DWG PI01 for Private Irrigation Plan.
 5. See Sheet SL03 for Lighting Plan.

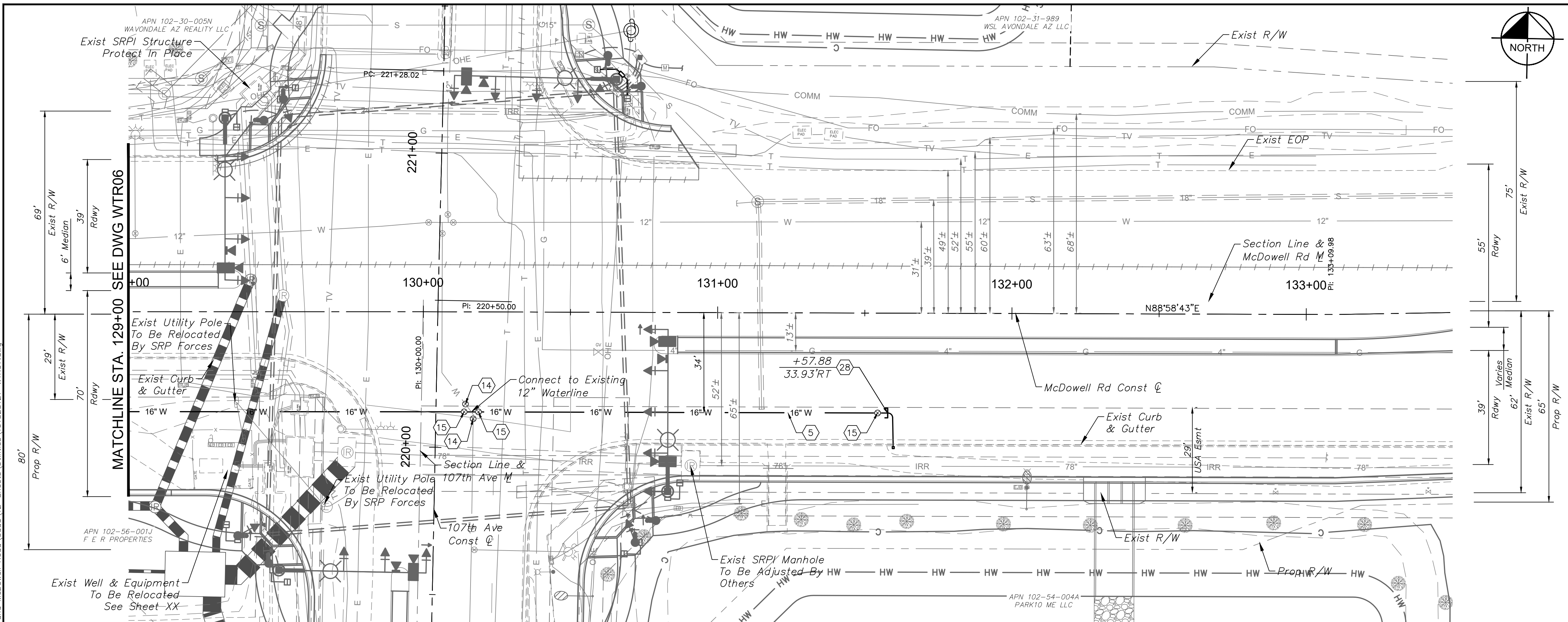
PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
53 OF 84
 PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Sheet: McDowell Road Layout: WTR07 October 10, 2018 04:31:27pm K:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road\Road\12 - Sheets Utilities\191323121 - WTR07.dwg



CONSTRUCTION NOTES		
NO.	DESCRIPTION	QTY UNIT
5	16" DIP Waterline with Polywrap Per AWWA C150 & COA Dtl A1130	256 LF
14	Insert 12" Valve	2 EA
15	16" Double Disk Gate Valve Per AWWA C550 & Valve Box Per MAG Dtl 391-1	2 EA
28	Curb Stop with Flushing Pipe Per MAG Dtl 390, Type 'A'	1 EA

DRAWN BY:	JDF
DESIGNED BY:	KAC
CHECKED BY:	PLO4
SHEET DWG:	1" = 20'
DRAWING HORZ:	SCALE(S)
VERT:	###

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WATERLINE PLAN AND PROFILE
107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PROFILES TO BE ADDED FOR 90% SUBMITTAL

- SHEET NOTES**
1. See Sheet PP06 for Paving Plan.
 2. See Sheet RB03 for Drainage Plan
 3. See Sheet SM05 for Signing & Striping Plan.
 4. See DWG PI01 for Private Irrigation Plan.
 5. See Sheet SL03 for Lighting Plan.

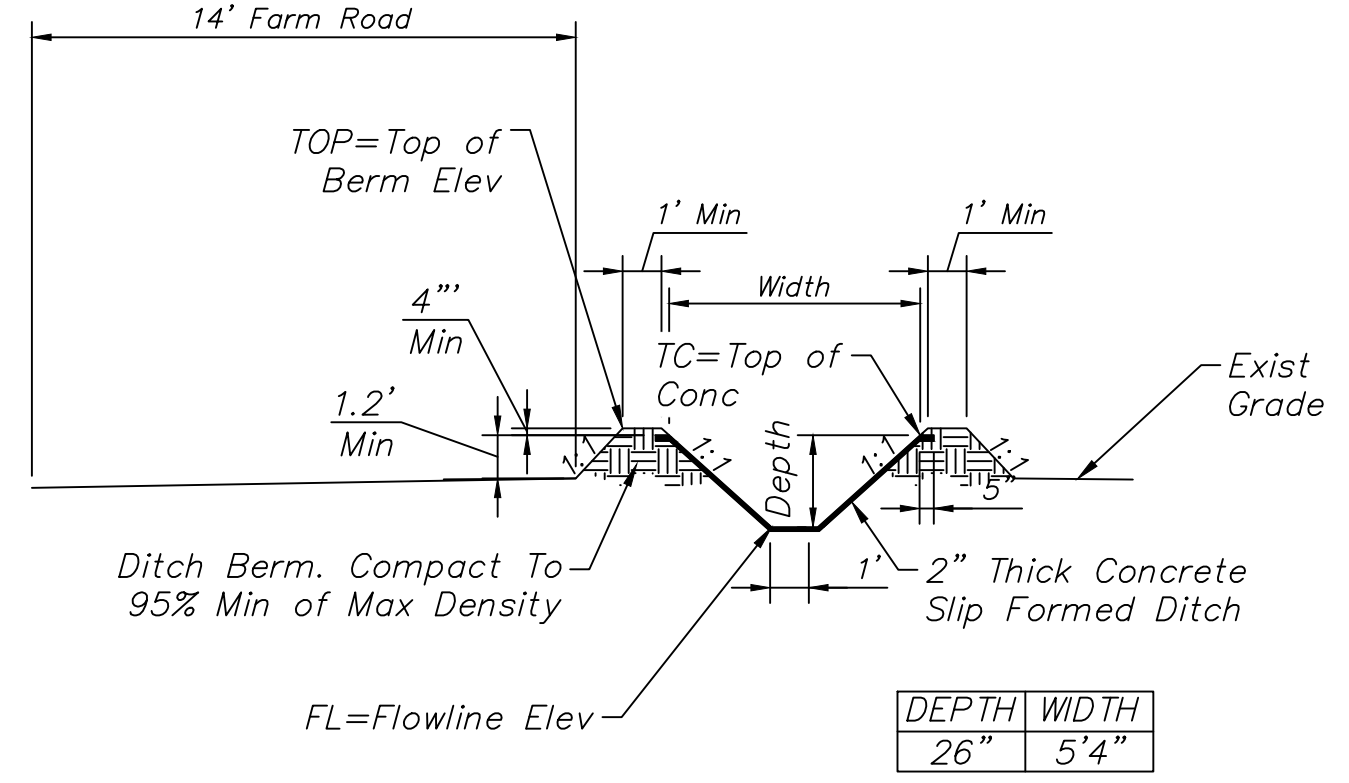
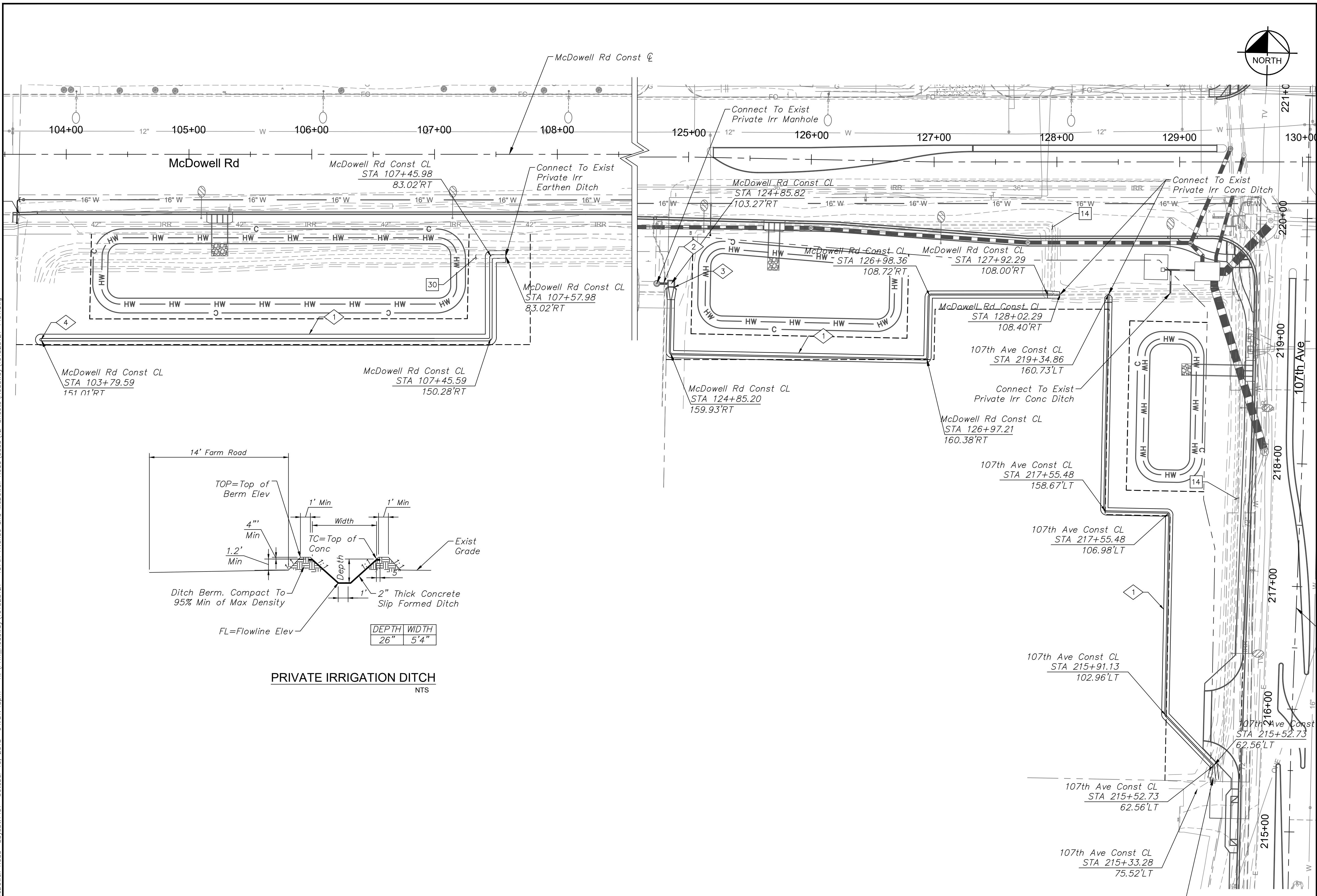
PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
 - - -
 SHEET NUMBER
54 OF 84
 PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Street: Sct: McDowell Road Layout: P101 October 10, 2018 04:31:45pm K:\PHY_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Roadway\191323121-P101.dwg



PRIVATE IRRIGATION DITCH
NTS

REMOVAL & RELOCATION NOTES

NO.	DESCRIPTION	QTY	UNIT
14	Remove Exist Conc. Irrigation Ditch, Backfill & Compact	956	LF
30	Existing Earthen Ditch, Backfill & Compact	436	LF

CONSTRUCTION NOTES

NO.	DESCRIPTION	QTY	UNIT
1	26" Deep Private Irrigation Ditch, Per Detail This Sheet	1,341	LF
2	24" RGRCP Class III Irrigation Pipe	10	LF
3	Headwall Per MAG Std Dtl 502-1	1	EA
4	Ditch Termination	1	EA

DRAWN BY:	JDF
DESIGNED BY:	CKT
CHECKED BY:	REL
SHEET DWG:	P101
DRAWING HORIZ:	1"=40'
SCALE(V):	N/A

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PRIVATE IRRIGATION
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

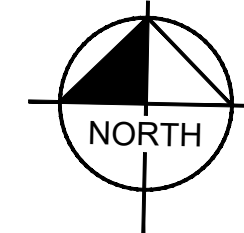
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE:

SHEET NUMBER: 55 OF 84
PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David - Street - Set: McDowell Road - Layout: LS01 - October 10, 2018 04:32:22pm - k:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road - Cadd\12-Sheets\Landscapes\191323121-LS01.dwg

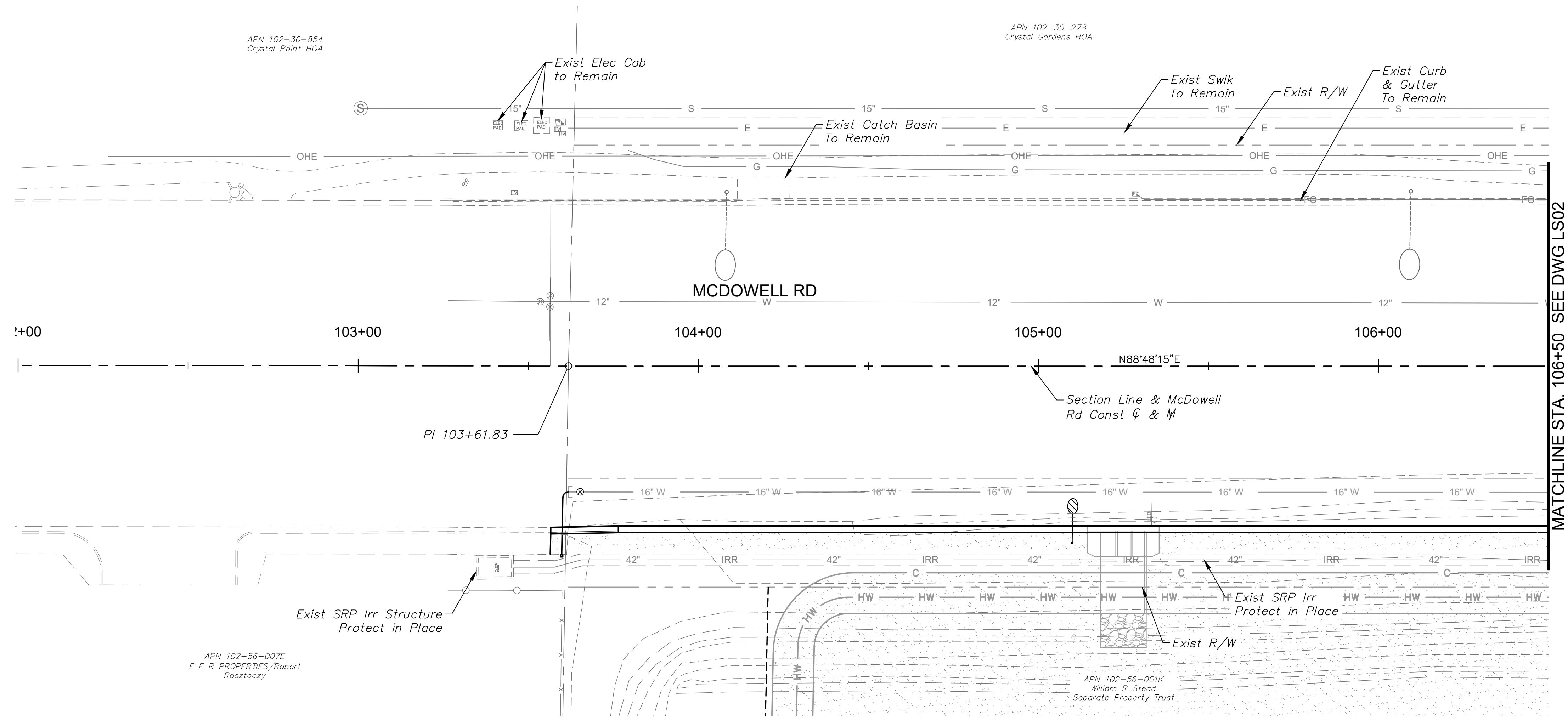


PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	SYMBOL
Chilopsis linearis 'Lucretia Hamilton' / 'Lucretia Hamilton' Desert Willow	
Dalbergia sissoo / Indian Rosewood	
Parkinsonia florida / Blue Palo Verde	
Phoenix dactylifera / Date Palm	
Prosopis chilensis 'Thornless' / Chilean Mesquite	
Quercus virginiana / Live Oak	
SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	SYMBOL
Acacia redolens 'Desert Carpet' / Prostrate acacia	
Caesalpinia pulcherrima / Red Bird of Paradise	
Leucophyllum frutescens 'Compacta' / Compact Sage	
Senna nemophila / Desert Cassia	
Simmondsia chinensis 'Vista' / Compact Jojoba	
Tecoma stans / Yellowbells	

ACCENTS	
BOTANICAL NAME / COMMON NAME	SYMBOL
Hesperaloe parviflora 'Brakelights' / Brakelights Red Yucca	

MISCELLANEOUS MATERIALS	
DESCRIPTION	SYMBOL
Decomposed Granite / 3/4" Screened, 2' Depth, Express Gold	
Decomposed Granite, Match Existing	
Median Concrete Pavers / Per COA Std Dtl A1220 & A1221	
Existing Vegetation to Remain / Protect in Place	



MATCHLINE STA. 106+50 SEE DWG LS02

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS01
DRAWING HORIZ. SCALE(S):	1" = 20'
VERT. SCALE(S):	N/A

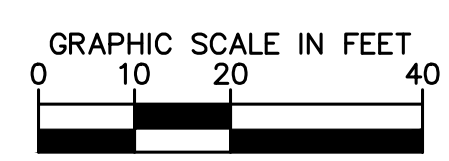
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SHEET TYPE:	LANDSCAPE PLAN
PROJECT NAME:	107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER:	ST1224

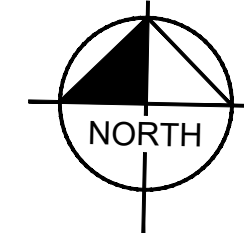
PRELIMINARY
60%
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ORIGINAL PLAN DATE
 10-5-2018

SHEET NUMBER
 57 OF 84
 PROJECT NUMBER
 ST1224



Plotted By: Rodriguez, David Street: McDowell Road Layout: LS02 October 10, 2018 04:32:31pm K:\PHX_Roadway\191323121 -107th Avenue and McDowell Road\Coord\12-Sheets\Landscapes\191323121-LS01.dwg



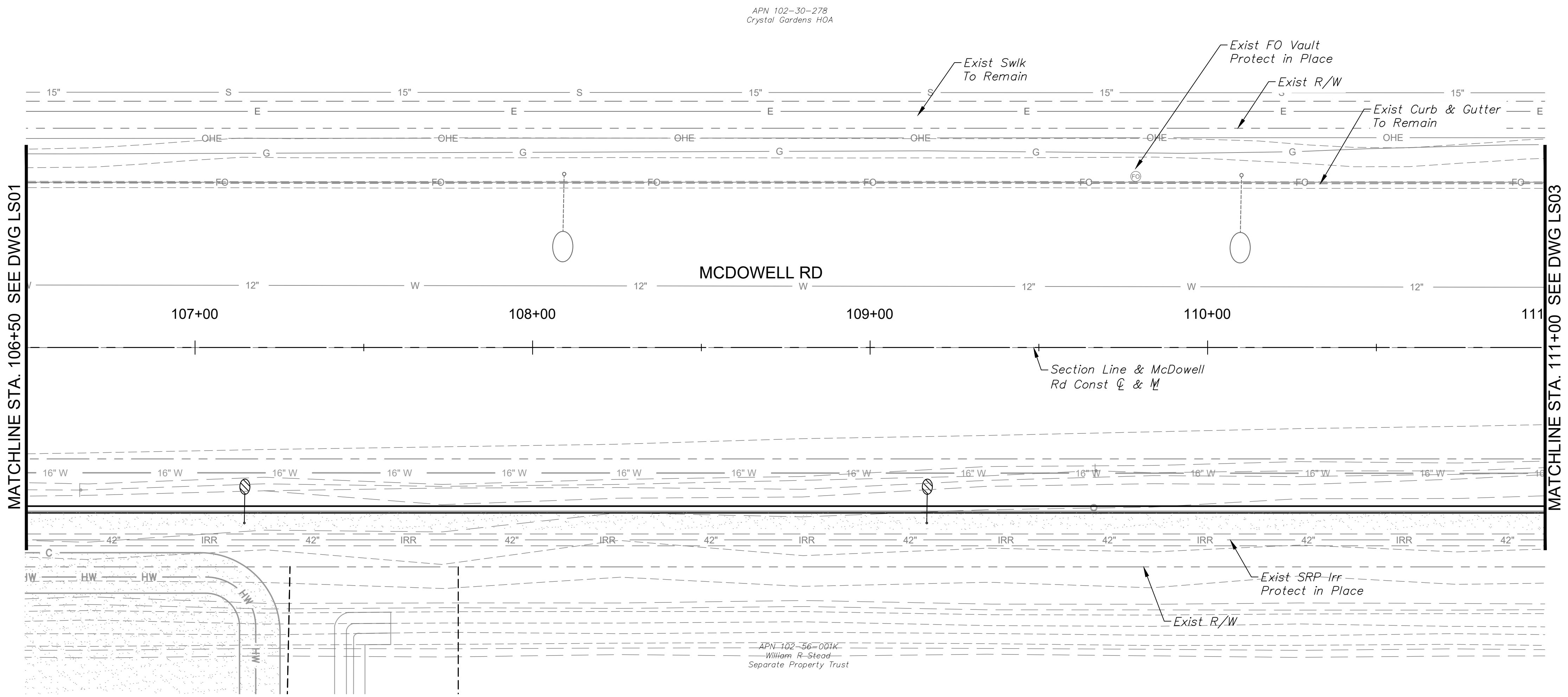
PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	Symbol
Chilopsis linearis 'Lucretia Hamilton' / 'Lucretia Hamilton' Desert Willow	
Dalbergia sissoo / Indian Rosewood	
Parkinsonia florida / Blue Palo Verde	
Phoenix dactylifera / Date Palm	
Prosopis chilensis 'Thornless' / Chilean Mesquite	
Quercus virginiana / Live Oak	

SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	Symbol
Acacia redolens 'Desert Carpet' / Prostrate acacia	
Caesalpinia pulcherrima / Red Bird of Paradise	
Leucophyllum frutescens 'Compacta' / Compact Sage	
Senna nemophila / Desert Cassia	
Simmondsia chinensis 'Vista' / Compact Jojoba	
Tecoma stans / Yellowbells	

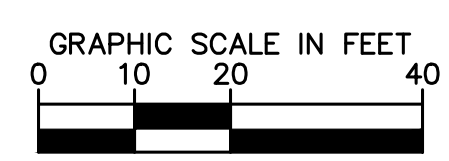
ACCENTS	
BOTANICAL NAME / COMMON NAME	Symbol
Hesperaloe parviflora 'Brakelights' / Brakelights Red Yucca	

MISCELLANEOUS MATERIALS	
DESCRIPTION	Symbol
Decomposed Granite / 3/4" Screened, 2" Depth, Express Gold	
Decomposed Granite, Match Existing	
Median Concrete Pavers / Per COA Std Dtl A1220 & A1221	
Existing Vegetation to Remain / Protect in Place	



MATCHLINE STA. 106+50 SEE DWG LS01

MATCHLINE STA. 111+00 SEE DWG LS03



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS02
DRAWING HORIZ SCALE:	1" = 20'
VERT. SCALE:	N/A

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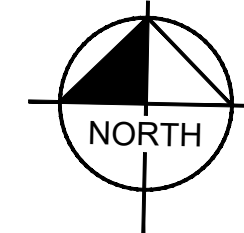
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PROJECT NAME:	107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER:	ST1224

PRELIMINARY
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 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
 10-5-2018

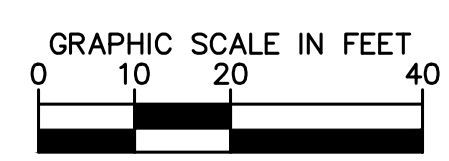
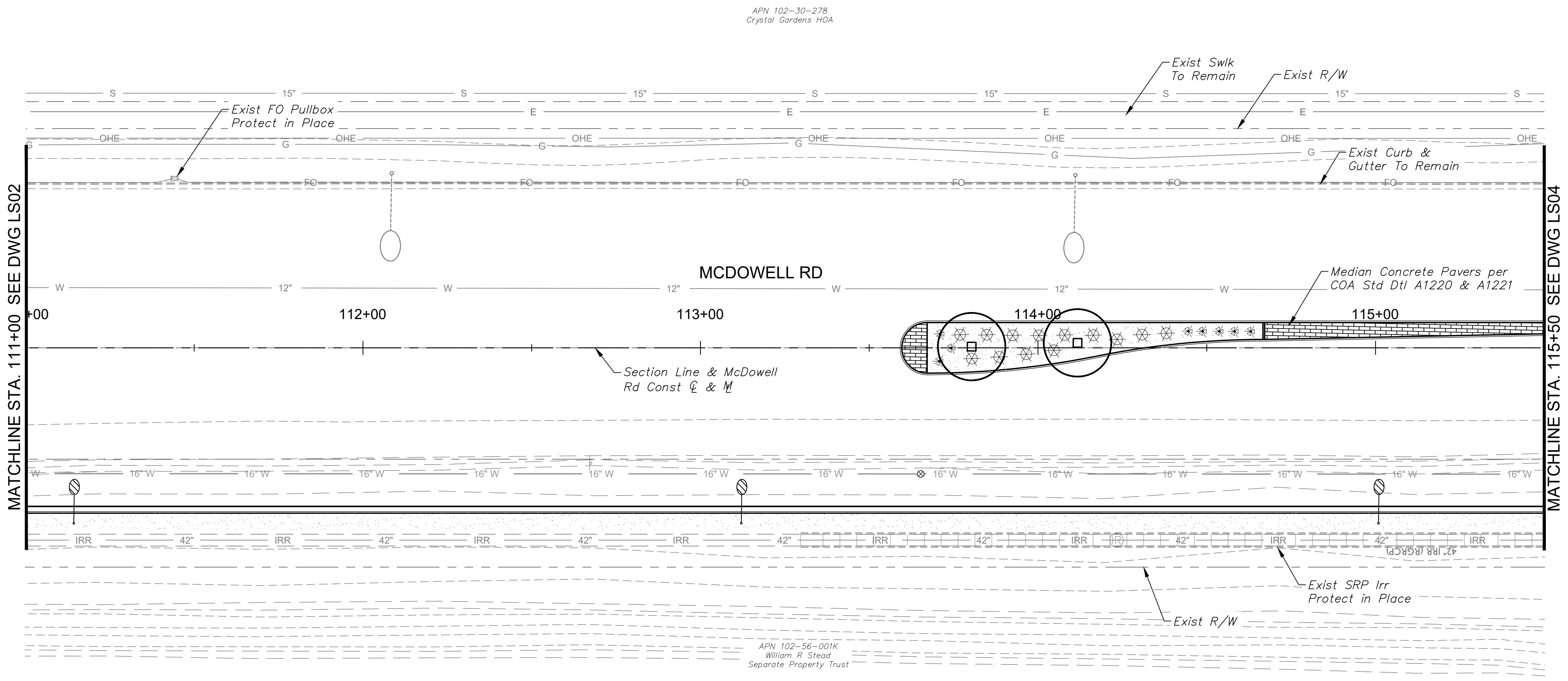
LATEST REVISION DATE
 - - -
 SHEET NUMBER
 58 OF 84
 PROJECT NUMBER
 ST1224

Plotted By: Rodriguez, David - Street - Sct: McDowell Road - Layout: LS03 - October 10, 2018 04:32:36pm - k:\PHX_Roadwork\191323121 - 107th Avenue and McDowell Road\Card\12-Sheets\Landscape\191323121-LS01.dwg



PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	
	Chilopsis linearis 'Lucretia Hamilton' 'Lucretia Hamilton' Desert Willow
	Dalbergia sissoo Indian Rosewood
	Parkinsonia florida Blue Palo Verde
	Phoenix dactylifera Date Palm
	Prosopis chilensis 'Thornless' Chilean Mesquite
	Quercus virginiana Live Oak
SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	
	Acacia redolens 'Desert Carpet' Prostrate acacia
	Caesalpinia pulcherrima Red Bird of Paradise
	Leucophyllum frutescens 'Compacta' Compact Sage
	Senna nemophila Desert Cassia
	Simmondsia chinensis 'Vista' Compact Jojoba
	Tecoma stans Yellowbells
ACCENTS	
BOTANICAL NAME / COMMON NAME	
	Hesperaloe parviflora 'Brakelights' Brakelights Red Yucca
MISCELLANEOUS MATERIALS	
DESCRIPTION	
	Decomposed Granite 3/4" Screened, 2" Depth, Express Gold
	Decomposed Granite, Match Existing
	Median Concrete Pavers Per COA Std Dtl A1220 & A1221
	Existing Vegetation to Remain Protect in Place



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS03
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

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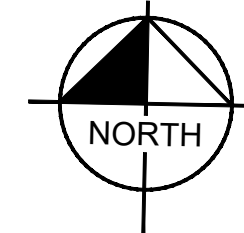
LANDSCAPE PLAN
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
59 OF 84
PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Street: Set: McDowell Road Layout: LS04 October 10, 2018 04:32:41pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Card\12-Sheets\Landscapes\191323121-LS01.dwg

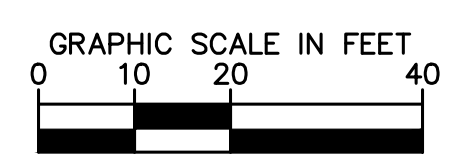
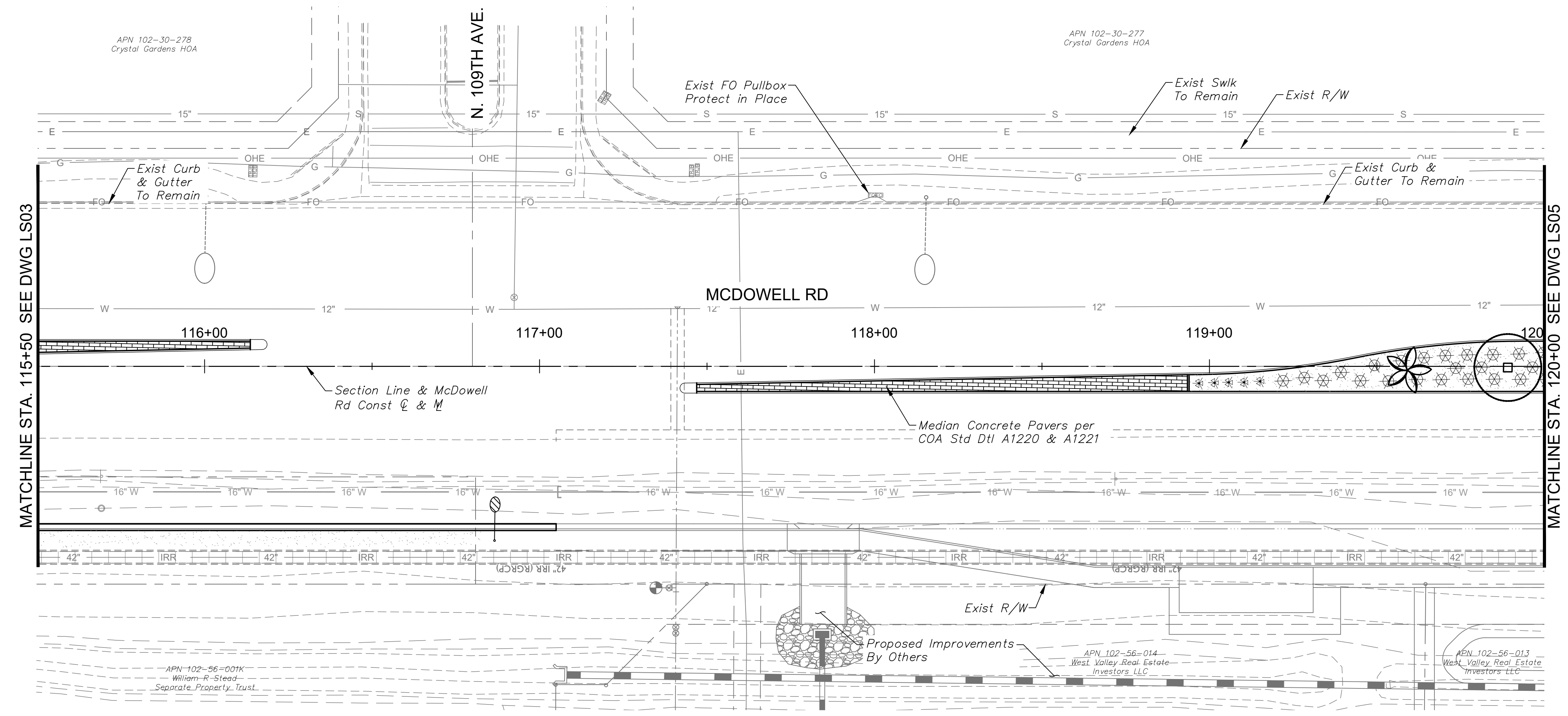


PLANTING LEGEND

- TREES**
- BOTANICAL NAME / COMMON NAME
Chilopsis linearis 'Lucretia Hamilton'
'Lucretia Hamilton' Desert Willow
 - BOTANICAL NAME / COMMON NAME
Dalbergia sissoo
Indian Rosewood
 - BOTANICAL NAME / COMMON NAME
Parkinsonia florida
Blue Palo Verde
 - BOTANICAL NAME / COMMON NAME
Phoenix dactylifera
Date Palm
 - BOTANICAL NAME / COMMON NAME
Prosopis chilensis 'Thornless'
Chilean Mesquite
 - BOTANICAL NAME / COMMON NAME
Quercus virginiana
Live Oak
- SHRUBS & GROUNDCOVER**
- BOTANICAL NAME / COMMON NAME
Acacia redolens 'Desert Carpet'
Prostrate acacia
 - BOTANICAL NAME / COMMON NAME
Caesalpinia pulcherrima
Red Bird of Paradise
 - BOTANICAL NAME / COMMON NAME
Leucophyllum frutescens 'Compacta'
Compact Sage
 - BOTANICAL NAME / COMMON NAME
Senna nemophila
Desert Cassia
 - BOTANICAL NAME / COMMON NAME
Simmondsia chinensis 'Vista'
Compact Jojoba
 - BOTANICAL NAME / COMMON NAME
Tecoma stans
Yellowbells

- ACCENTS**
- BOTANICAL NAME / COMMON NAME
Hesperaloe parviflora 'Brakelights'
Brakelights Red Yucca

- MISCELLANEOUS MATERIALS**
- DESCRIPTION**
- -
 -
 -



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS04
DRAWING HORIZ SCALE(S):	1" = 20'
VERT. SCALE(S):	N/A

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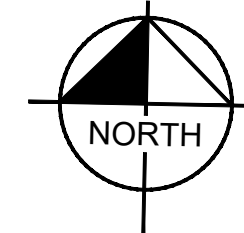
LANDSCAPE PLAN
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
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NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

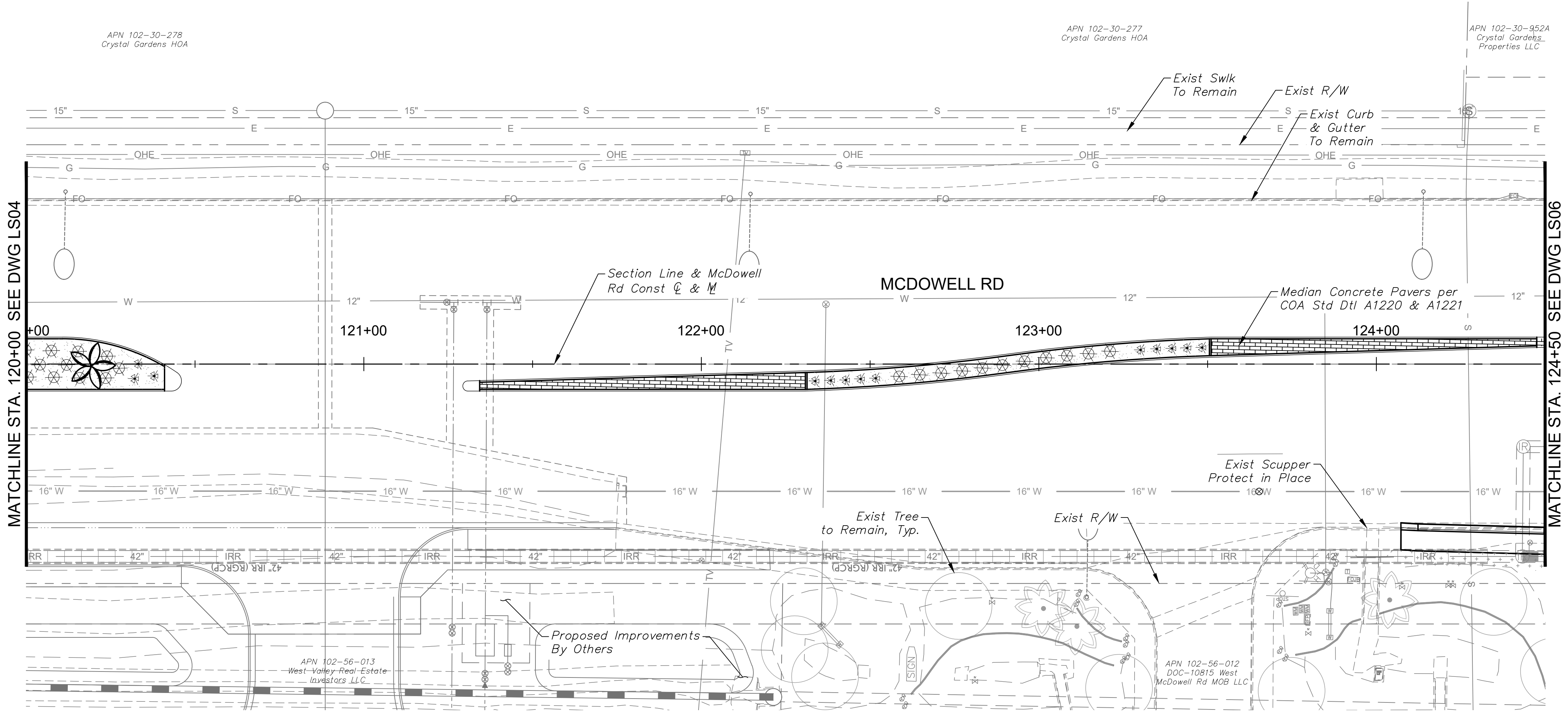
SHEET NUMBER
60 OF 84
PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Street: Sct: McDowell Road Layout: LS05 October 10, 2018 04:32:46pm k:\Phix_Roadway\191323121-107th Avenue and McDowell Road\Card\12-Sheets\Landscape\191323121-LS01.dwg



PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	
	Chilopsis linearis 'Lucretia Hamilton' 'Lucretia Hamilton' Desert Willow
	Dalbergia sissoo Indian Rosewood
	Parkinsonia florida Blue Palo Verde
	Phoenix dactylifera Date Palm
	Prosopis chilensis 'Thornless' Chilean Mesquite
	Quercus virginiana Live Oak
SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	
	Acacia redolens 'Desert Carpet' Prostrate acacia
	Caesalpinia pulcherrima Red Bird of Paradise
	Leucophyllum frutescens 'Compacta' Compact Sage
	Senna nemophila Desert Cassia
	Simmondsia chinensis 'Vista' Compact Jojoba
	Tecoma stans Yellowbells
ACCENTS	
BOTANICAL NAME / COMMON NAME	
	Hesperaloe parviflora 'Brakelights' Brakelights Red Yucca
MISCELLANEOUS MATERIALS	
DESCRIPTION	
	Decomposed Granite 3/4" Screened, 2" Depth, Express Gold
	Decomposed Granite, Match Existing
	Median Concrete Pavers Per COA Std Dtl A1220 & A1221
	Existing Vegetation to Remain Protect in Place



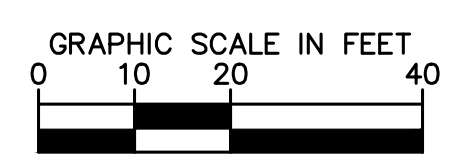
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LANDSCAPE PLAN
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

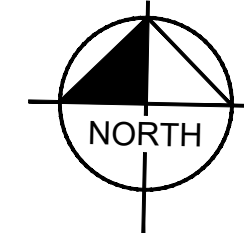
PRELIMINARY
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NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
61 OF 84
PROJECT NUMBER
ST1224

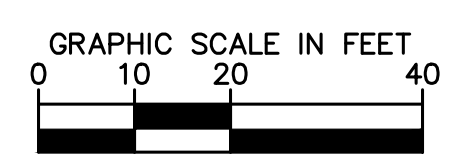
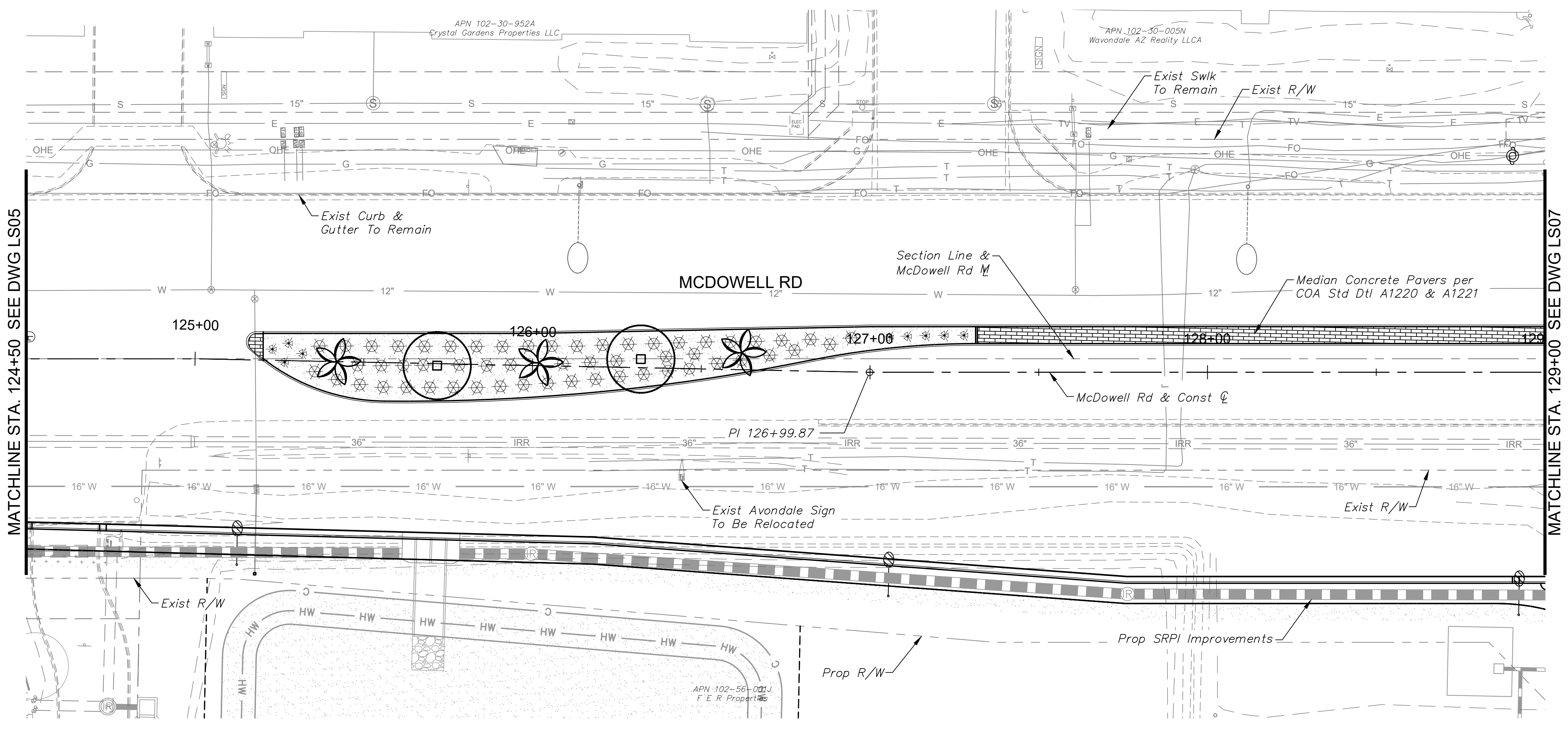


Plotted By: Rodriguez, David Street: McDowell Road Layout: LS06 October 10, 2018 04:32:51pm K:\PHX_Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Landscapes\191323121-LS01.dwg



PLANTING LEGEND

- TREES**
- | BOTANICAL NAME / COMMON NAME |
|--|
| Chilopsis linearis 'Lucretia Hamilton' / 'Lucretia Hamilton' Desert Willow |
| Dalbergia sissoo / Indian Rosewood |
| Parkinsonia florida / Blue Palo Verde |
| Phoenix dactylifera / Date Palm |
| Prosopis chilensis 'Thornless' / Chilean Mesquite |
| Quercus virginiana / Live Oak |
- SHRUBS & GROUNDCOVER**
- | BOTANICAL NAME / COMMON NAME |
|--|
| Acacia redolens 'Desert Carpet' / Prostrate acacia |
| Caesalpinia pulcherrima / Red Bird of Paradise |
| Leucophyllum frutescens 'Compacta' / Compact Sage |
| Senna nemophila / Desert Cassia |
| Simmondsia chinensis 'Vista' / Compact Jojoba |
| Tecoma stans / Yellowbells |
- ACCENTS**
- | BOTANICAL NAME / COMMON NAME |
|---|
| Hesperaloe parviflora 'Brakelights' / Brakelights Red Yucca |
- MISCELLANEOUS MATERIALS**
- | DESCRIPTION |
|--|
| Decomposed Granite / 3/4" Screened, 2' Depth, Express Gold |
| Decomposed Granite, Match Existing |
| Median Concrete Pavers / Per COA Std Dtl A1220 & A1221 |
| Existing Vegetation to Remain / Protect in Place |



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS06
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

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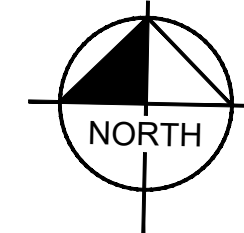
SHEET TYPE: **LANDSCAPE PLAN**
 PROJECT NAME: **107TH AVENUE & MCDOWELL ROAD INTERSECTION**
 PROJECT NUMBER: **ST1224**

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
62 OF 84
 PROJECT NUMBER
ST1224

Plotted By: Rodriquez, David Street: Smt: McDowell Road Layout: LS07 October 10, 2018 04:32:56pm k:\Phx_Roadway\191323121-107th Avenue and McDowell Road\Card\12-Sheets\Landscape\191323121-LS01.dwg



PLANTING LEGEND	
TREES	
BOTANICAL NAME / COMMON NAME	
	Chilopsis linearis 'Lucretia Hamilton' 'Lucretia Hamilton' Desert Willow
	Dalbergia sissoo Indian Rosewood
	Parkinsonia florida Blue Palo Verde
	Phoenix dactylifera Date Palm
	Prosopis chilensis 'Thornless' Chilean Mesquite
	Quercus virginiana Live Oak
SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	
	Acacia redolens 'Desert Carpet' Prostrate acacia
	Caesalpinia pulcherrima Red Bird of Paradise
	Leucophyllum frutescens 'Compacta' Compact Sage
	Senna nemophila Desert Cassia
	Simmondsia chinensis 'Vista' Compact Jojoba
	Tecoma stans Yellowbells
ACCENTS	
BOTANICAL NAME / COMMON NAME	
	Hesperaloe parviflora 'Brakelights' Brakelights Red Yucca
MISCELLANEOUS MATERIALS	
DESCRIPTION	
	Decomposed Granite 3/4" Screened, 2" Depth, Express Gold
	Decomposed Granite, Match Existing
	Median Concrete Pavers Per COA Std Dtl A1220 & A1221
	Existing Vegetation to Remain Protect in Place

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS07
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

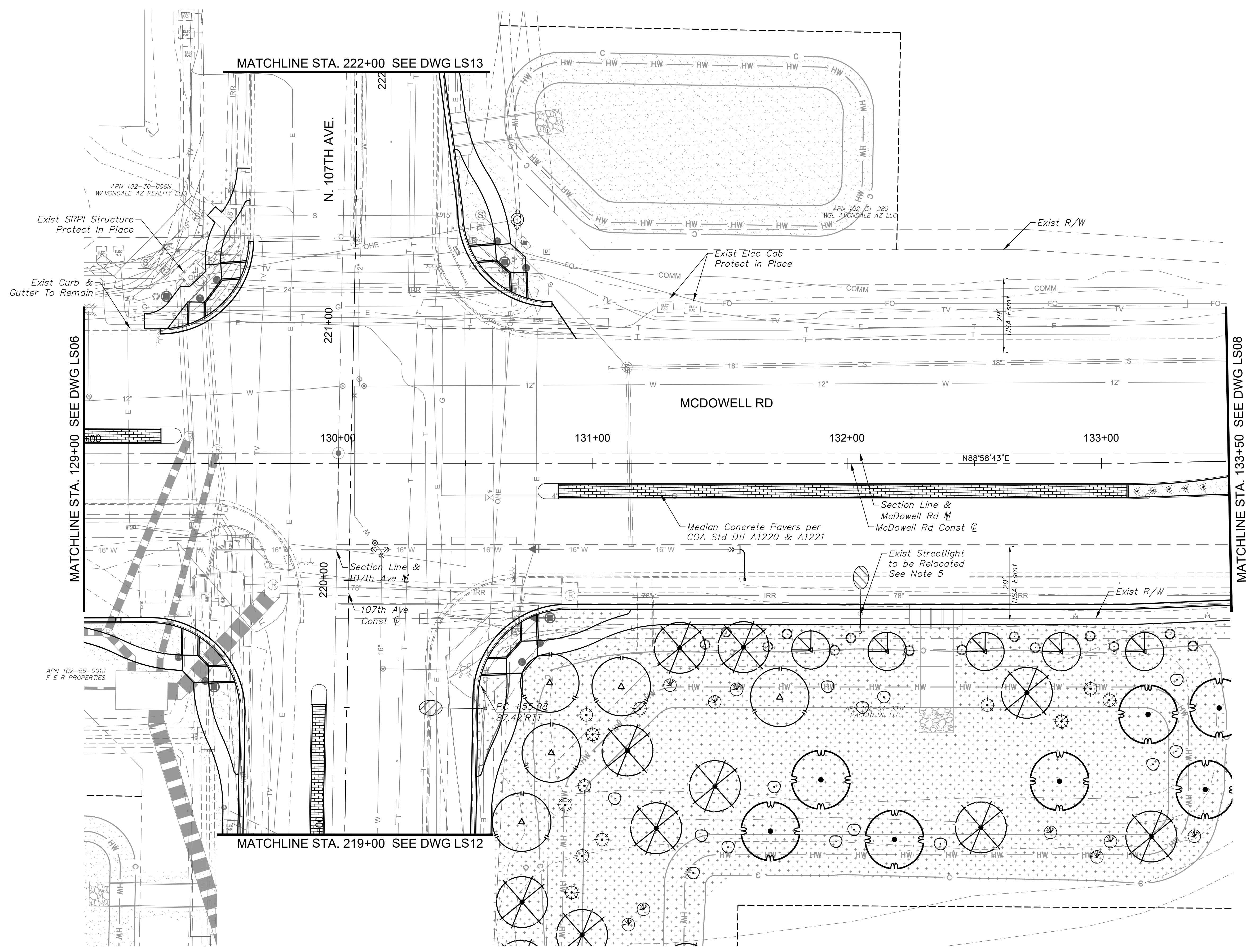
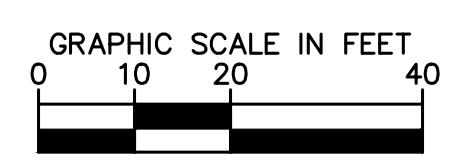
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SHEET TYPE:	LANDSCAPE PLAN
PROJECT NAME:	107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER:	ST1224

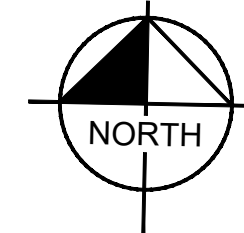
PRELIMINARY
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NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
63 OF 84
PROJECT NUMBER
ST1224

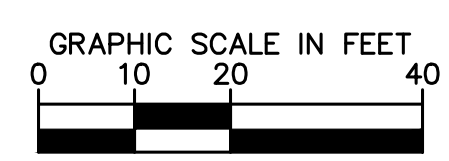
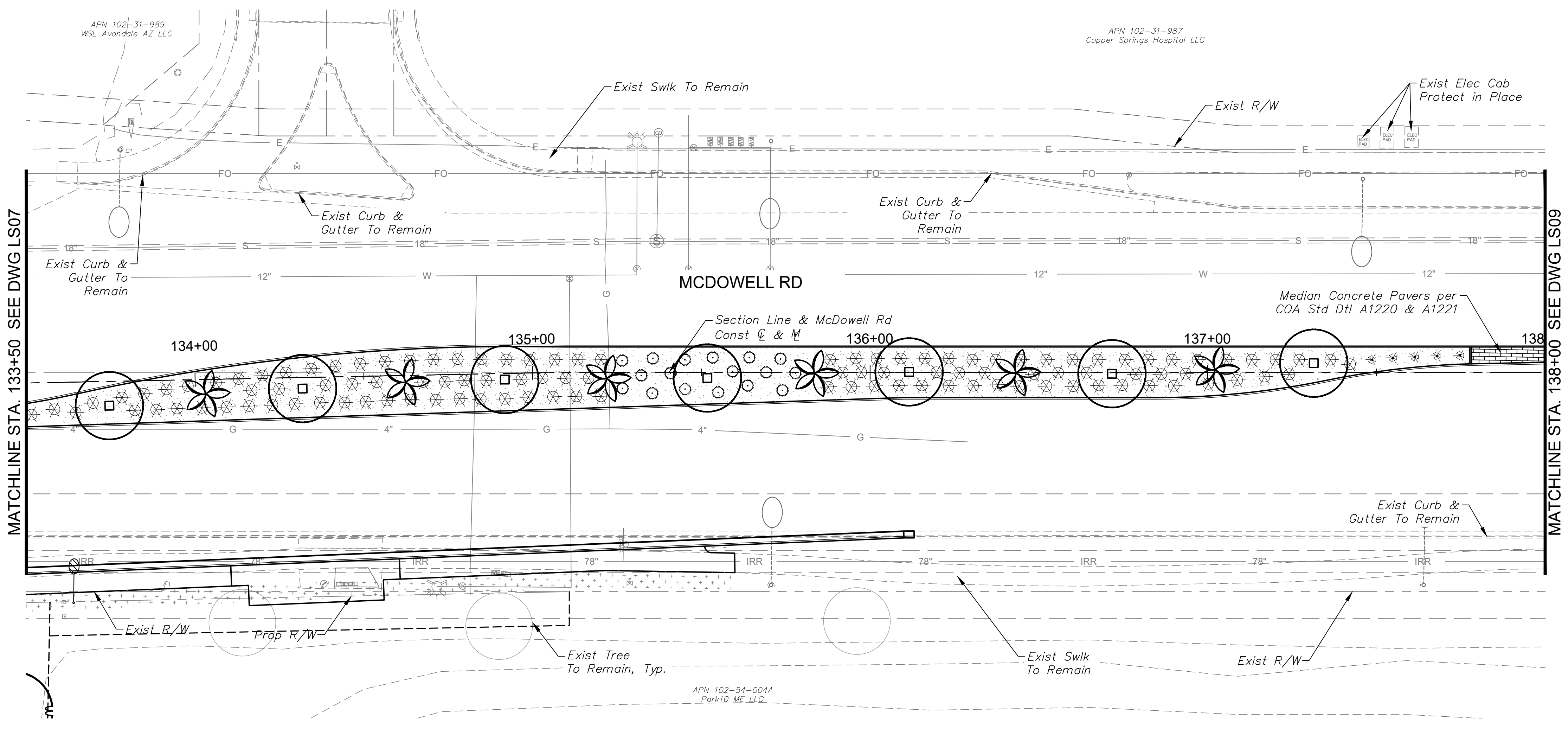


Plotted By: Rodriguez, David - Street - Sct: McDowell Road - Layout: LS08 - October 10, 2018 04:33:01pm - K:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road - Cadd\12-Sheets\Landscapes\191323121-LS01.dwg



PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	
Chilopsis linearis 'Lucretia Hamilton' / 'Lucretia Hamilton' Desert Willow	
Dalbergia sissoo / Indian Rosewood	
Parkinsonia florida / Blue Palo Verde	
Phoenix dactylifera / Date Palm	
Prosopis chilensis 'Thornless' / Chilean Mesquite	
Quercus virginiana / Live Oak	
SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	
Acacia redolens 'Desert Carpet' / Prostrate acacia	
Caesalpinia pulcherrima / Red Bird of Paradise	
Leucophyllum frutescens 'Compacta' / Compact Sage	
Senna nemophila / Desert Cassia	
Simmondsia chinensis 'Vista' / Compact Jojoba	
Tecoma stans / Yellowbells	
ACCENTS	
BOTANICAL NAME / COMMON NAME	
Hesperaloe parviflora 'Brakelights' / Brakelights Red Yucca	
MISCELLANEOUS MATERIALS	
DESCRIPTION	
Decomposed Granite / 3/4" Screened, 2' Depth, Express Gold	
Decomposed Granite, Match Existing	
Median Concrete Pavers / Per COA Std Dtl A1220 & A1221	
Existing Vegetation to Remain / Protect in Place	



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS08
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

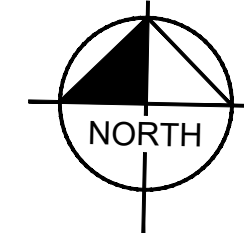
Kimley»Horn
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LANDSCAPE PLAN
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

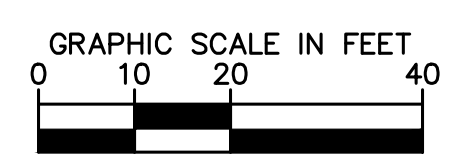
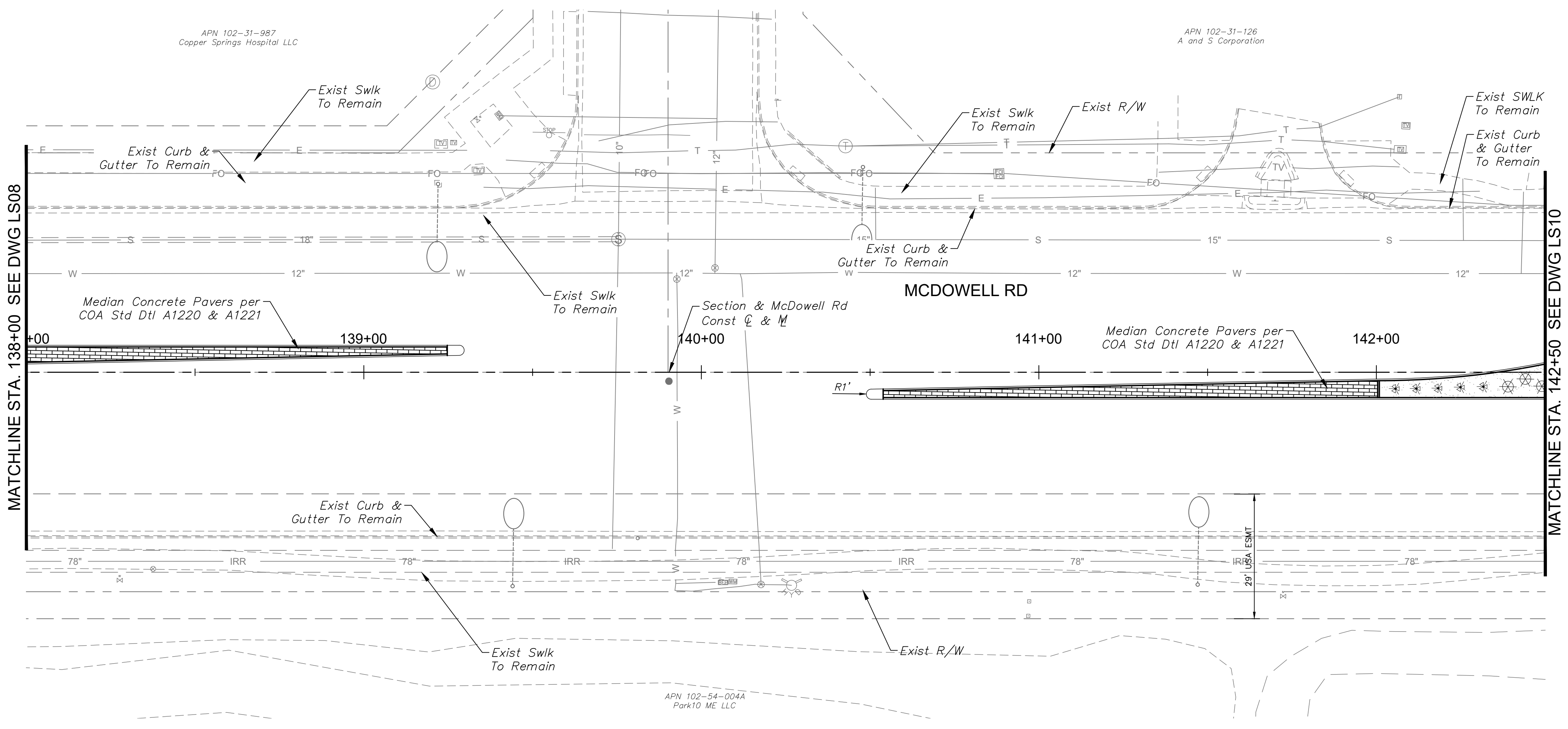
ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE: - - -
 SHEET NUMBER: 64 OF 84
 PROJECT NUMBER: ST1224

Plotted By: Rodriguez, David Street: McDowell Road Layout: LS09 October 10, 2018 04:33:06pm k:\PHX_Roadway\191323121-107th Avenue and McDowell Road\12-Sheets\Landscape\191323121-LS01.dwg



PLANTING LEGEND

- TREES**
- Chilopsis linearis 'Lucretia Hamilton' 'Lucretia Hamilton' Desert Willow
 - Dalbergia sissoo Indian Rosewood
 - Parkinsonia florida Blue Palo Verde
 - Phoenix dactylifera Date Palm
 - Prosopis chilensis 'Thornless Chilean Mesquite'
 - Quercus virginiana Live Oak
- SHRUBS & GROUNDCOVER**
- Acacia redolens 'Desert Carpet' Prostrate acacia
 - Caesalpinnia pulcherrima Red Bird of Paradise
 - Leucophyllum frutescens 'Compacta' Compact Sage
 - Senna nemophila Desert Cassia
 - Simmondsia chinensis 'Vista' Compact Jojoba
 - Tecoma stans Yellowbells
- ACCENTS**
- Hesperaloe parviflora 'Brakelights' Brakelights Red Yucca
- MISCELLANEOUS MATERIALS**
- DESCRIPTION**
- Decomposed Granite 3/4" Screened, 2' Depth, Express Gold
 - Decomposed Granite, Match Existing
 - Median Concrete Pavers Per COA Std Dtl A1220 & A1221
 - Existing Vegetation to Remain Protect in Place



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS09
DRAWING HORIZ. SCALE(S):	1" = 20'
VERT. SCALE(S):	N/A

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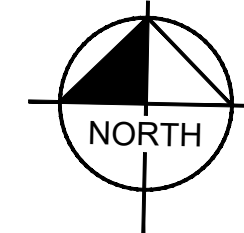
LANDSCAPE PLAN
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
 10-5-2018

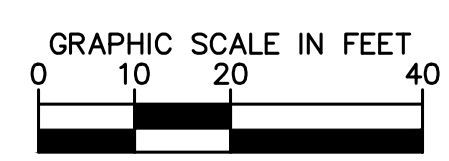
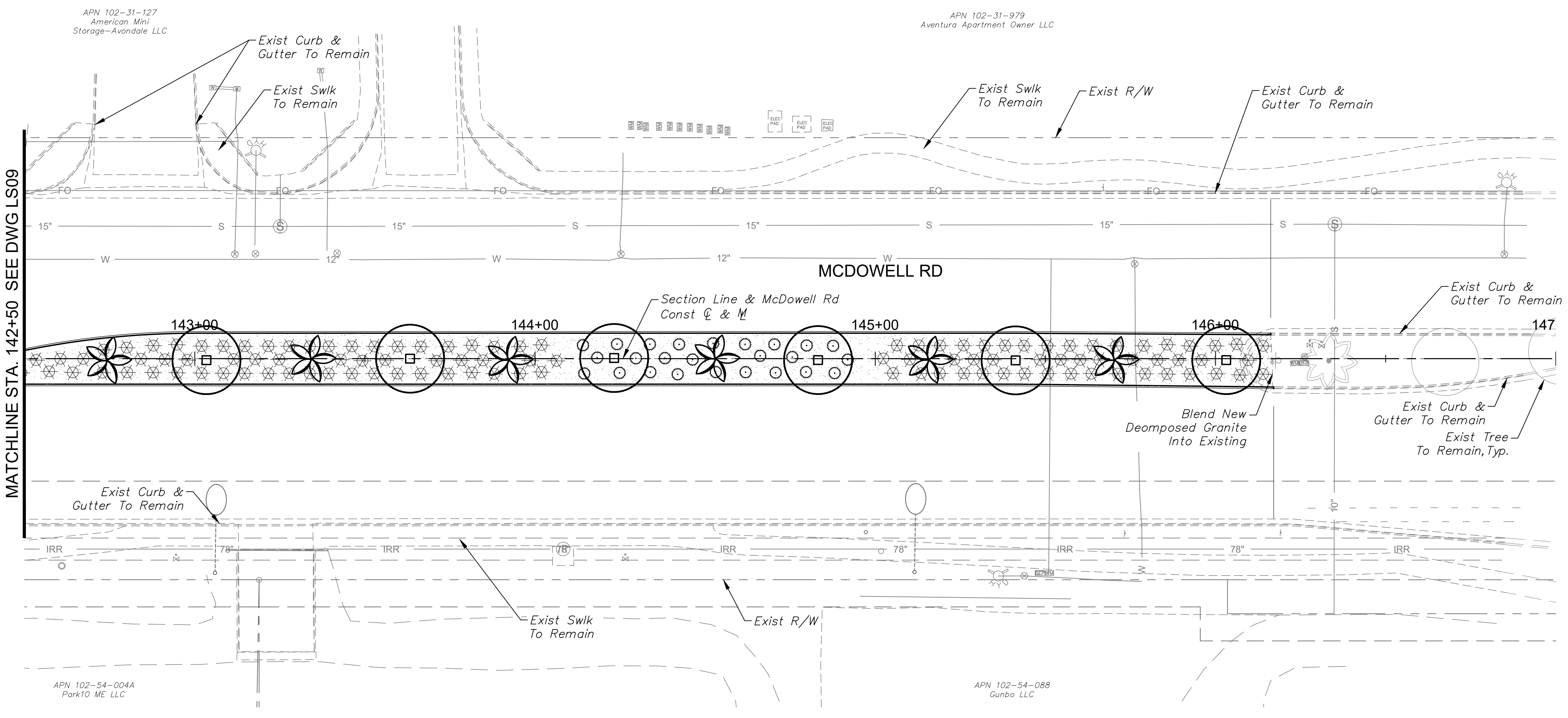
SHEET NUMBER
 85 OF 84
 PROJECT NUMBER
 ST1224

Plotted By: Rodriguez, David - Street: McDowell Road - Layout: LS10 - October 10, 2018 04:33:11pm K:\PHX_Roadway\181323121-1077th Avenue and McDowell Road\Coord\12--Streets Landscape\181323121-LS01.dwg



PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	SYMBOL
Chilopsis linearis 'Lucretia Hamilton' / 'Lucretia Hamilton' Desert Willow	
Dalbergia sissoo / Indian Rosewood	
Parkinsonia florida / Blue Palo Verde	
Phoenix dactylifera / Date Palm	
Prosopis chilensis 'Thornless' / Chilean Mesquite	
Quercus virginiana / Live Oak	
SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	SYMBOL
Acacia redolens 'Desert Carpet' / Prostrate acacia	
Caesalpinia pulcherrima / Red Bird of Paradise	
Leucophyllum frutescens 'Compacta' / Compact Sage	
Senna nemophila / Desert Cassia	
Simmondsia chinensis 'Vista' / Compact Jojoba	
Tecoma stans / Yellowbells	
ACCENTS	
BOTANICAL NAME / COMMON NAME	SYMBOL
Hesperaloe parviflora 'Brakelights' / Brakelights Red Yucca	
MISCELLANEOUS MATERIALS	
DESCRIPTION	SYMBOL
Decomposed Granite / 3/4" Screened, 2' Depth, Express Gold	
Decomposed Granite, Match Existing	
Median Concrete Pavers / Per COA Std Dtl A1220 & A1221	
Existing Vegetation to Remain / Protect in Place	



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS10
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

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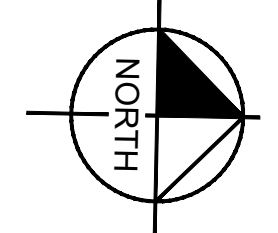
LANDSCAPE PLAN
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
 10-5-2018

SHEET NUMBER
 66 OF 84
 PROJECT NUMBER
 ST1224

Plotted By: Rodriguez, David - Street: McDowell Road - Layout: LS11 - October 10, 2018 04:33:16pm K:\PHX_Roadway\181323121 - 107th Avenue and McDowell Road\Card\12 - Streets Landscape\181323121-LS01.dwg



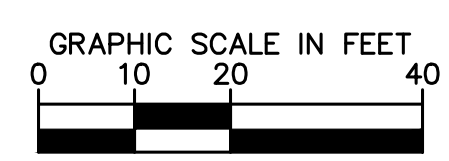
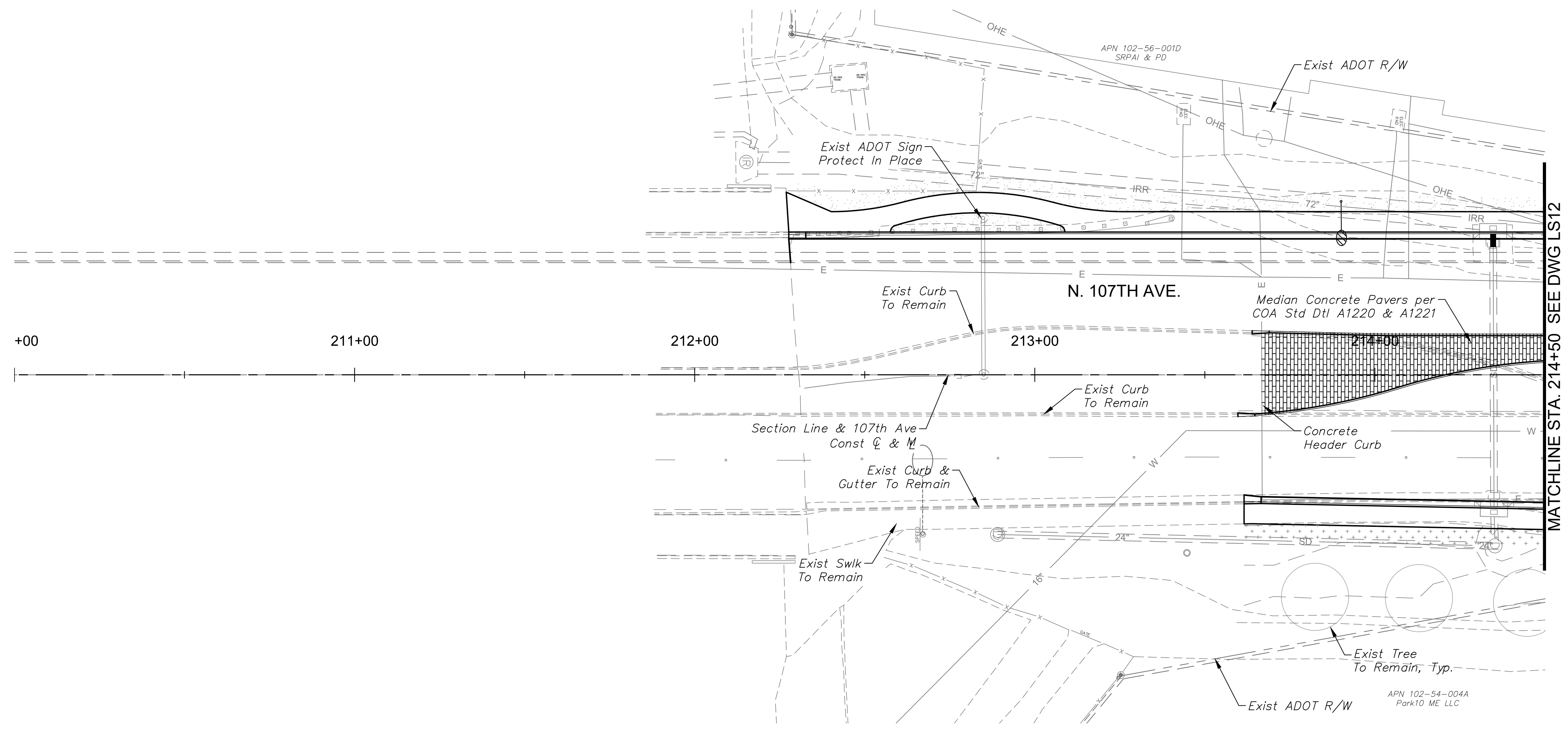
PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	SYMBOL
Chilopsis linearis 'Lucretia Hamilton' 'Lucretia Hamilton' Desert Willow	
Dalbergia sissoo Indian Rosewood	
Parkinsonia florida Blue Palo Verde	
Phoenix dactylifera Date Palm	
Prosopis chilensis 'Thornless' Chilean Mesquite	
Quercus virginiana Live Oak	

SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	SYMBOL
Acacia redolens 'Desert Carpet' Prostrate acacia	
Caesalpinia pulcherrima Red Bird of Paradise	
Leucophyllum frutescens 'Compacta' Compact Sage	
Senna nemophila Desert Cassia	
Simmondsia chinensis 'Vista' Compact Jojoba	
Tecoma stans Yellowbells	

ACCENTS	
BOTANICAL NAME / COMMON NAME	SYMBOL
Hesperaloe parviflora 'Brakelights' Brakelights Red Yucca	

MISCELLANEOUS MATERIALS	
DESCRIPTION	SYMBOL
Decomposed Granite 3/4" Screened, 2' Depth, Express Gold	
Decomposed Granite, Match Existing	
Median Concrete Pavers Per COA Std Dtl A1220 & A1221	
Existing Vegetation to Remain Protect in Place	



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS11
DRAWING HORZ. SCALE(S):	1" = 20'
VERT. SCALE(S):	N/A

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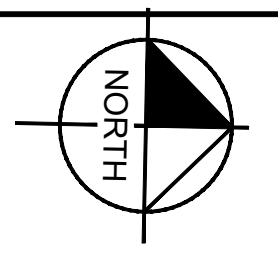
LANDSCAPE PLAN
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

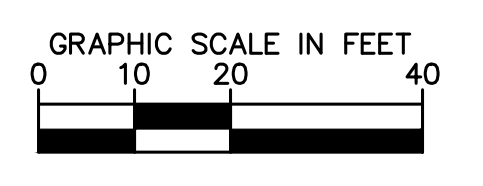
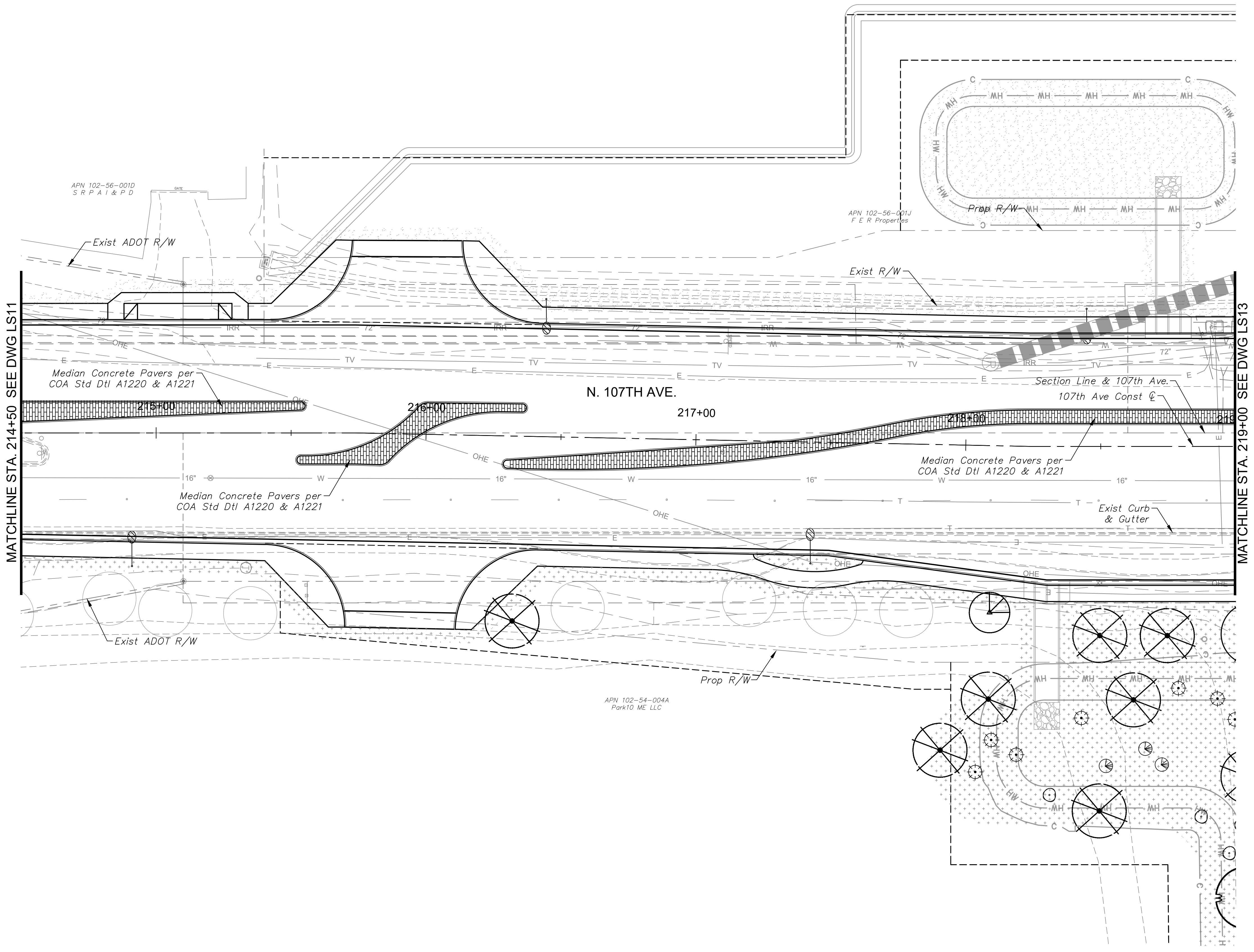
SHEET NUMBER
67 OF 84
PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Street: Set: McDowell Road Layout: LS12 - October 10, 2018 04:35:26pm ks:\PHX_Roadway\191323121 - 107th Avenue and McDowell Road\191323121 - LS01.dwg



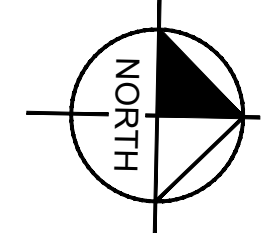
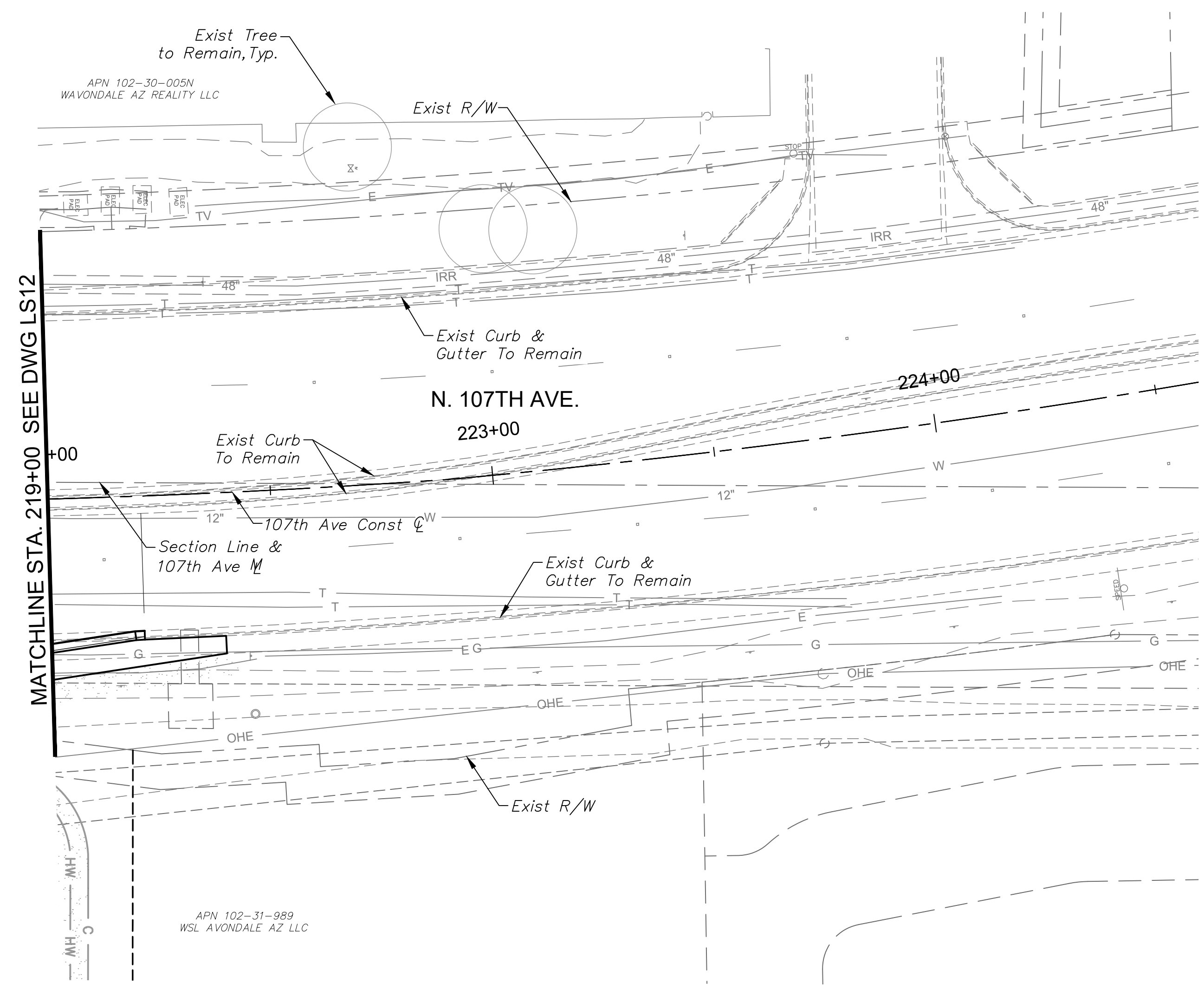
PLANTING LEGEND

TREES	BOTANICAL NAME / COMMON NAME
	Chilopsis linearis 'Lucretia Hamilton' / 'Lucretia Hamilton' Desert Willow
	Dalbergia sissoo / Indian Rosewood
	Parkinsonia florida / Blue Palo Verde
	Phoenix dactylifera / Date Palm
	Prosopis chilensis 'Thornless' / Chilean Mesquite
	Quercus virginiana / Live Oak
SHRUBS & GROUNDCOVER	BOTANICAL NAME / COMMON NAME
	Acacia redolens 'Desert Carpet' / Prostrate acacia
	Caesalpinia pulcherrima / Red Bird of Paradise
	Leucophyllum frutescens 'Compacta' / Compact Sage
	Senna nemophila / Desert Cassia
	Simmondsia chinensis 'Vista' / Compact Jojoba
	Tecoma stans / Yellowbells
ACCENTS	BOTANICAL NAME / COMMON NAME
	Hesperaloe parviflora 'Brakelights' / Brakelights Red Yucca
MISCELLANEOUS MATERIALS	DESCRIPTION
	Decomposed Granite / 3/4" Screened, 2' Depth, Express Gold
	Decomposed Granite, / Match Existing
	Median Concrete Pavers / Per COA Std Dtl A1220 & A1221
	Existing Vegetation to Remain / Protect in Place



<p>DRAWN BY: JLW DESIGNED BY: ASD CHECKED BY: ASD SHEET DWG: LS12 DRAWING HORIZ: 1" = 20' SCALE(S): VERT. N/A</p>	<h1 style="margin: 0;">Kimley»Horn</h1> <p style="font-size: 8px; margin: 0;">© 2018 KIMLEY-HORN AND ASSOCIATES, INC. 7140 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5500</p>	<p>LANDSCAPE PLAN PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION PROJECT NUMBER: ST1224</p>
<p>PRELIMINARY 60% NOT FOR CONSTRUCTION</p>		
<p>ORIGINAL PLAN DATE 10-5-2018 LATEST REVISION DATE -</p>		
<p>SHEET NUMBER 68 OF 84 PROJECT NUMBER ST1224</p>		

Plotted By: Rodriguez, David - Street - Set: McDowell Road - Layout: LS13 - October 10, 2018 04:33:31pm K:\PHX_Roadwork\191323121 - 107th Avenue and McDowell Road - Coord\12 - Sheets\Landscape\191323121-LS01.dwg



PLANTING LEGEND

TREES	
BOTANICAL NAME / COMMON NAME	SYMBOL
Chilopsis linearis 'Lucretia Hamilton' / 'Lucretia Hamilton' Desert Willow	
Dalbergia sissoo / Indian Rosewood	
Parkinsonia florida / Blue Palo Verde	
Phoenix dactylifera / Date Palm	
Prosopis chilensis 'Thornless' / Chilean Mesquite	
Quercus virginiana / Live Oak	
SHRUBS & GROUNDCOVER	
BOTANICAL NAME / COMMON NAME	SYMBOL
Acacia redolens 'Desert Carpet' / Prostrate acacia	
Caesalpinia pulcherrima / Red Bird of Paradise	
Leucophyllum frutescens 'Compacta' / Compact Sage	
Senna nemophila / Desert Cassia	
Simmondsia chinensis 'Vista' / Compact Jojoba	
Tecoma stans / Yellowbells	

ACCENTS	
BOTANICAL NAME / COMMON NAME	SYMBOL
Hesperaloe parviflora 'Brakelights' / Brakelights Red Yucca	

MISCELLANEOUS MATERIALS	
DESCRIPTION	SYMBOL
Decomposed Granite / 3/4" Screened, 2' Depth, Express Gold	
Decomposed Granite, Match Existing	
Median Concrete Pavers / Per COA Std Dtl A1220 & A1221	
Existing Vegetation to Remain / Protect in Place	

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LS13
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

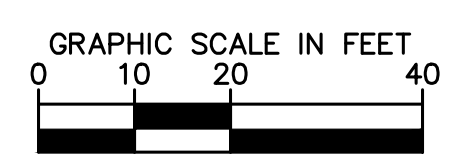
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SHEET TYPE: **LANDSCAPE PLAN**
 PROJECT NAME: **107TH AVENUE & MCDOWELL ROAD INTERSECTION**
 PROJECT NUMBER: **ST1224**

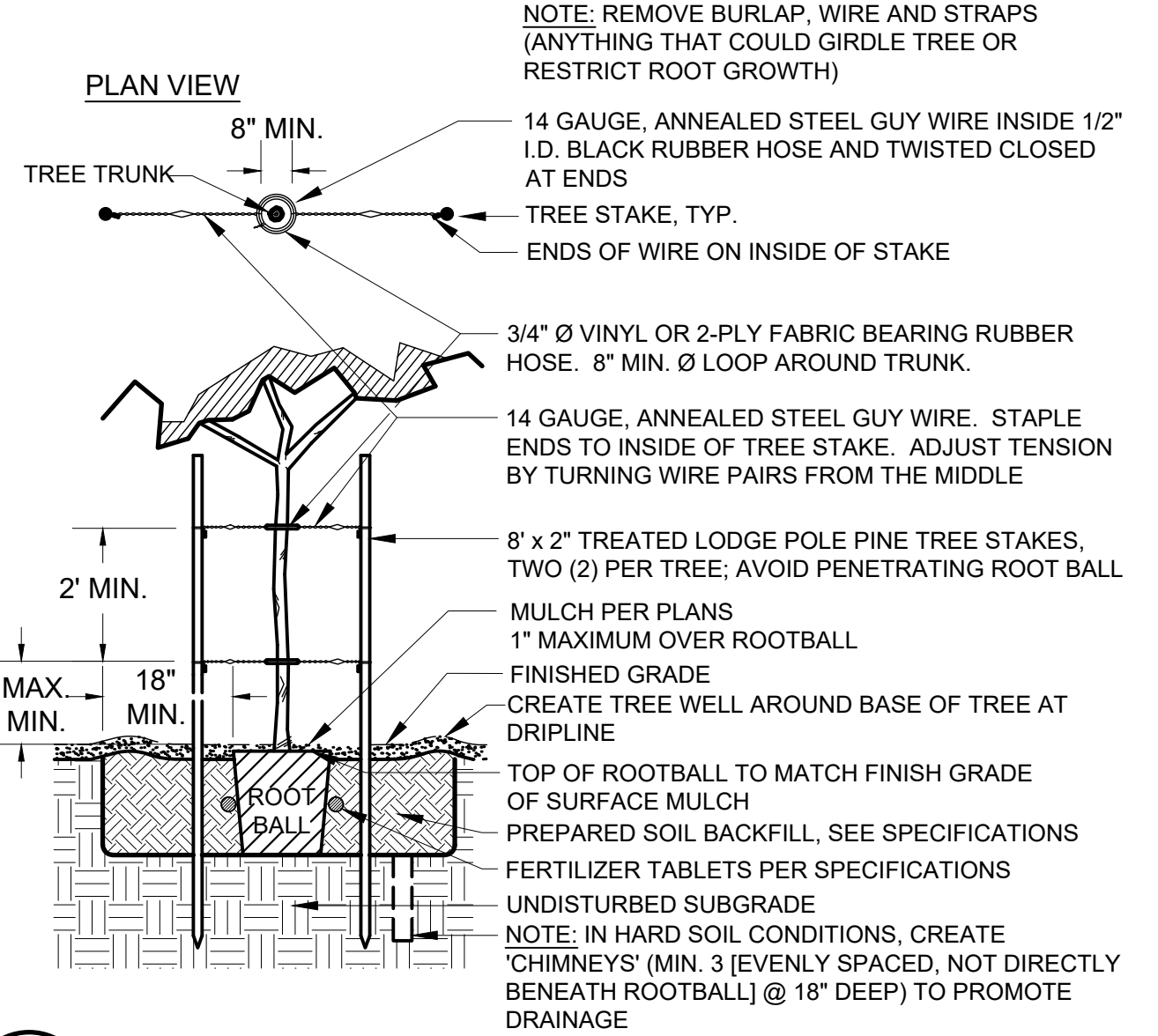
PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

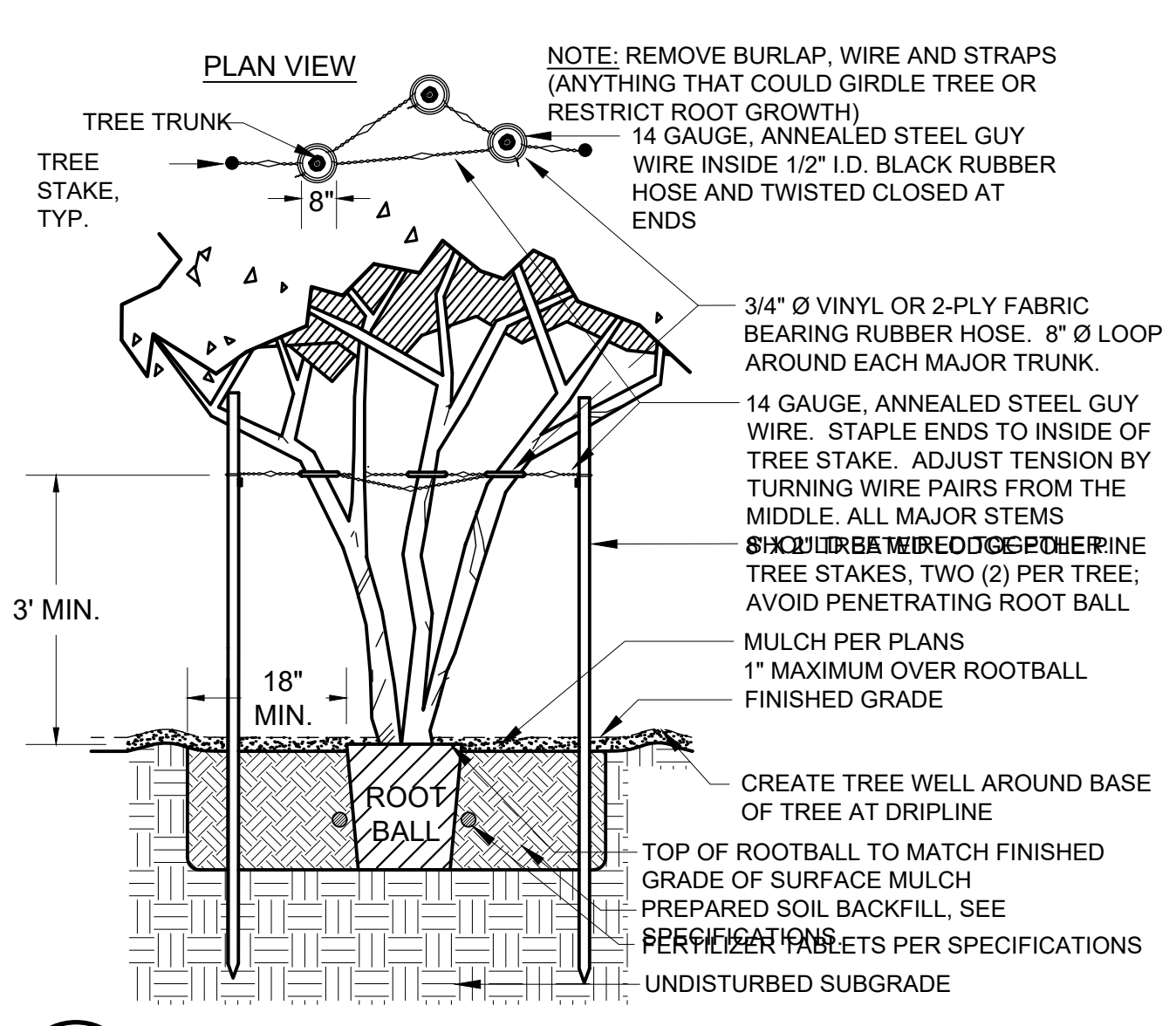
SHEET NUMBER
69 OF 84
 PROJECT NUMBER
ST1224



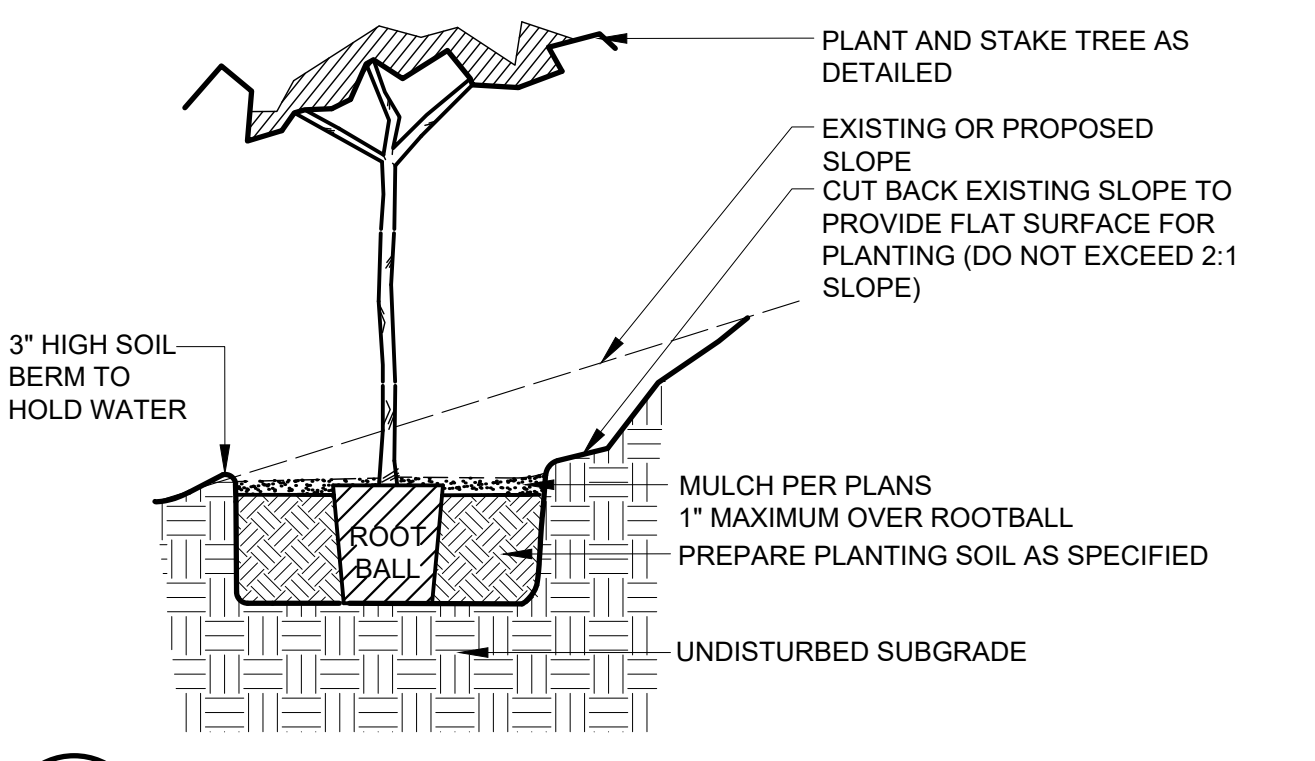
Plotted By: Rodriguez, David Street: Smt: McDowell Road Layout: LS-DTLS-01 October 10, 2018 04:33:38pm K:\PHX_Roadway\181323121-107th Avenue and McDowell Road\Contd\12--Sheets\Landscape\181323121-LS-DTLS.dwg



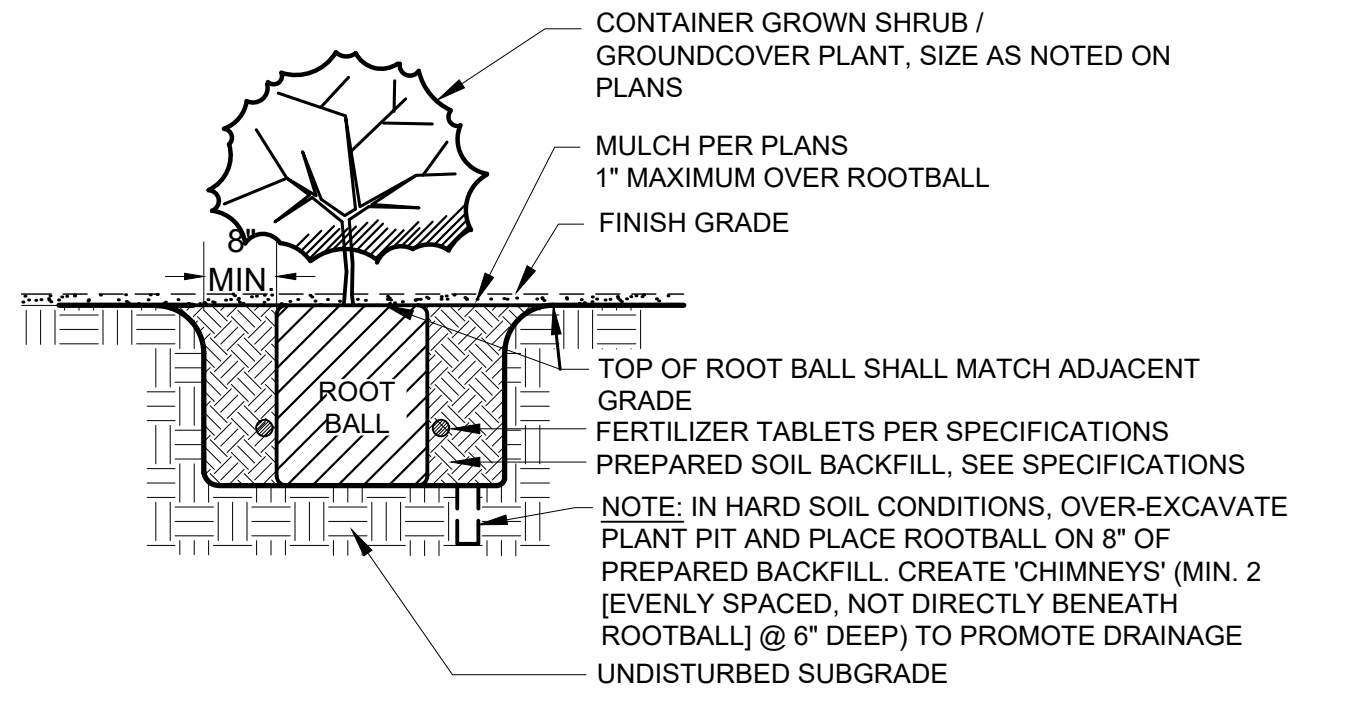
1 TREE PLANTING AND STAKING
SCALE: N.T.S. L-101



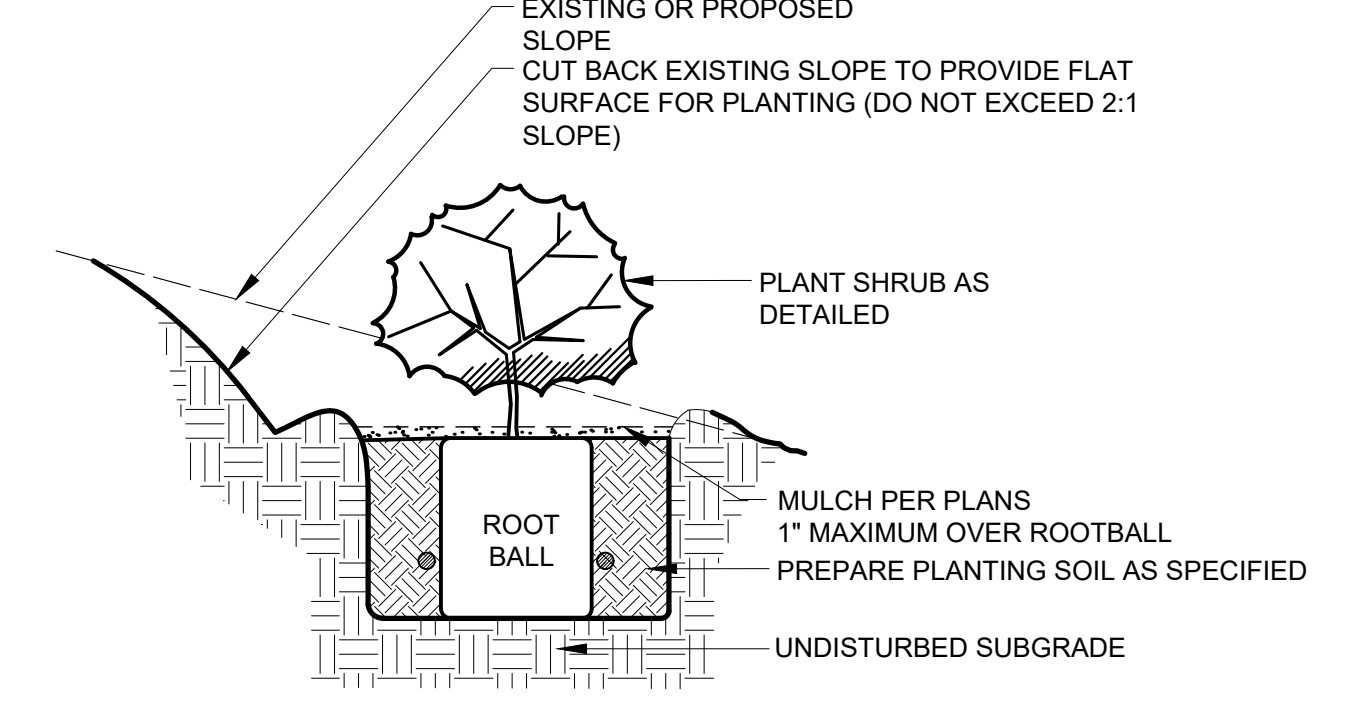
2 TREE STAKING - MULTI-TRUNK
SCALE: N.T.S. L-102



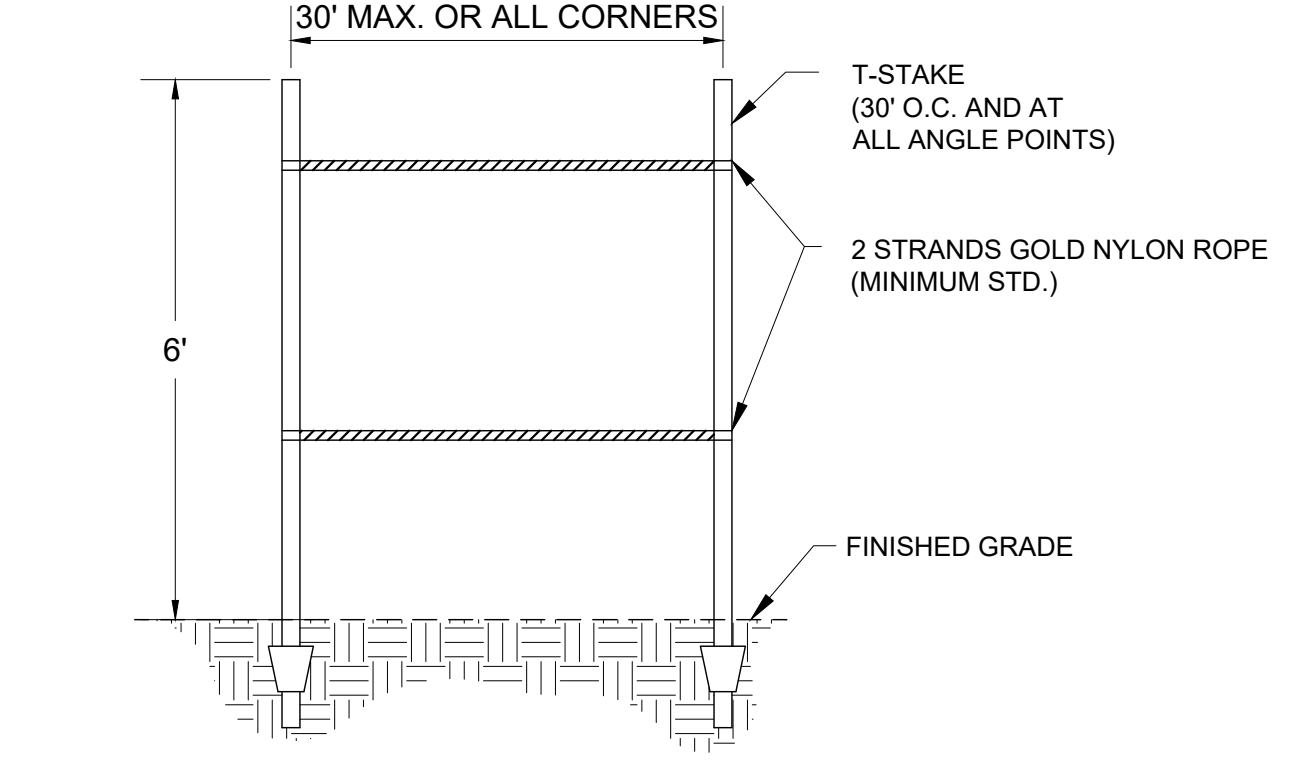
3 TREE PLANTING ON SLOPE
SCALE: N.T.S. L-103



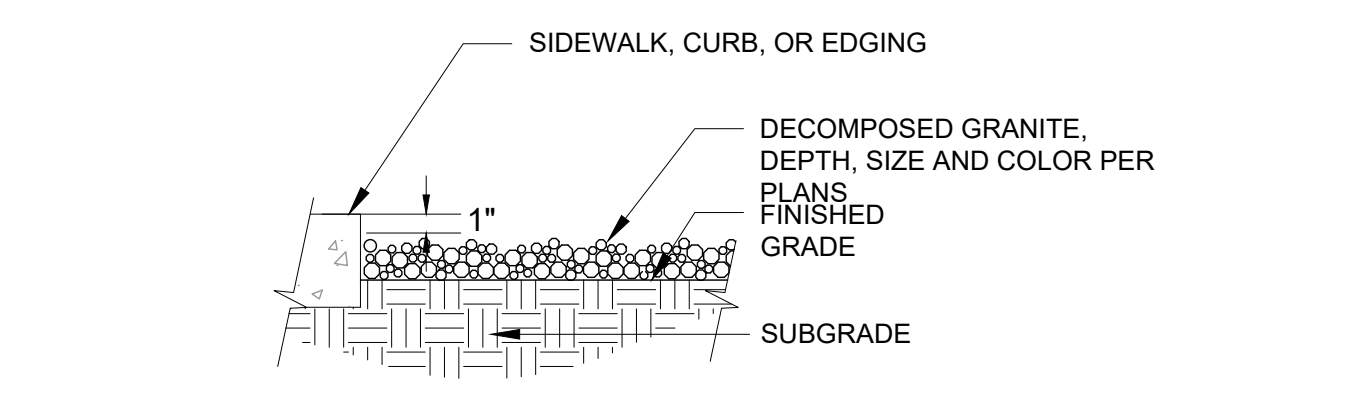
4 SHRUB / GROUND COVER PLANTING
SCALE: N.T.S. L-105



5 SHRUB / GROUND COVER PLANTING ON SLOPE
SCALE: N.T.S. L-106



6 CONSTRUCTION FENCING
SCALE: N.T.S. L-110



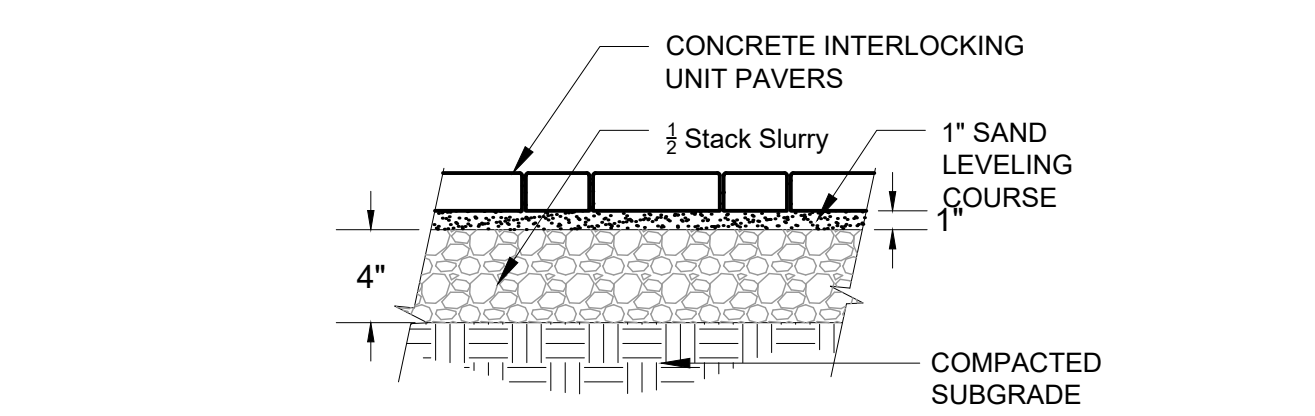
7 DECOMPOSED GRANITE INSTALLATION
SCALE: N.T.S. L-117

AMENDED PLANTING BACKFILL MIX
MIX SHALL CONSIST OF: 1/2 PART 'NATIVE' SITE SOIL (NO CALICHE IN BACKFILL) & 1/2 PART MULCH ('HUMUS') 'NATURAL FERTILE, FRIABLE SOIL THOROUGHLY MIXED PRIOR TO BACKFILLING PIT. REMOVE ALL INORGANIC MATERIAL GREATER THAN 1" IN SIZE. SOIL BACKFILLING SHALL BE ACCOMPLISHED IN 6" LIFTS. EACH LIFT SHALL BE WATER SETTLED WITHOUT POOLING.

SLOW-RELEASE FERTILIZER TABLETS
FERTILIZER TABLETS SHALL BE AGRIFORM OR EQUAL (21 GRAM 20-10-5) SLOW RELEASE. TABLETS SHALL BE PLACED AT 1/2 THE DEPTH OF THE ROOTBALL AT THE FOLLOWING RATES:
1 TABLET PER 1-GALLON CONTAINER
2 TABLETS PER 5-GALLON CONTAINER
3 TABLETS PER 15-GALLON CONTAINER
4 TABLETS PER 24" BOX

AND AT A RATE OF 1 TABLET PER EACH ADDITIONAL 6" BOX SIZE. WHEN MULTIPLE QUANTITIES OF TABLETS ARE REQUIRED, THEY SHALL BE EQUALLY SPACED AT THE SPECIFIED DEPTH.

8 BACKFILL AND FERTILIZER NOTES
SCALE: N.T.S. L-118



9 CONCRETE MEDIAN PAVERS
SCALE: N.T.S. L-119

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	LSDT_01
DRAWING HORIZ:	NA
SCALE(S):	###

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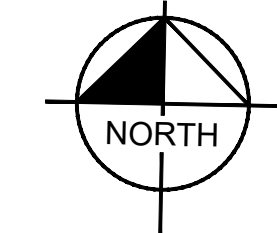
SHEET TYPE: LANDSCAPE DETAILS
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: - - -
SHEET NUMBER: 70 OF 84
PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David - Street - Set: McDowell Road - Layout: IRO1 - October 10, 2018 - 04:34:07pm - K:\PHX_Roadway\181323121 - 107th Avenue and McDowell Road\Cord\12-Sheets\Landscape\181323121-IRO1.dwg



IRRIGATION LEGEND

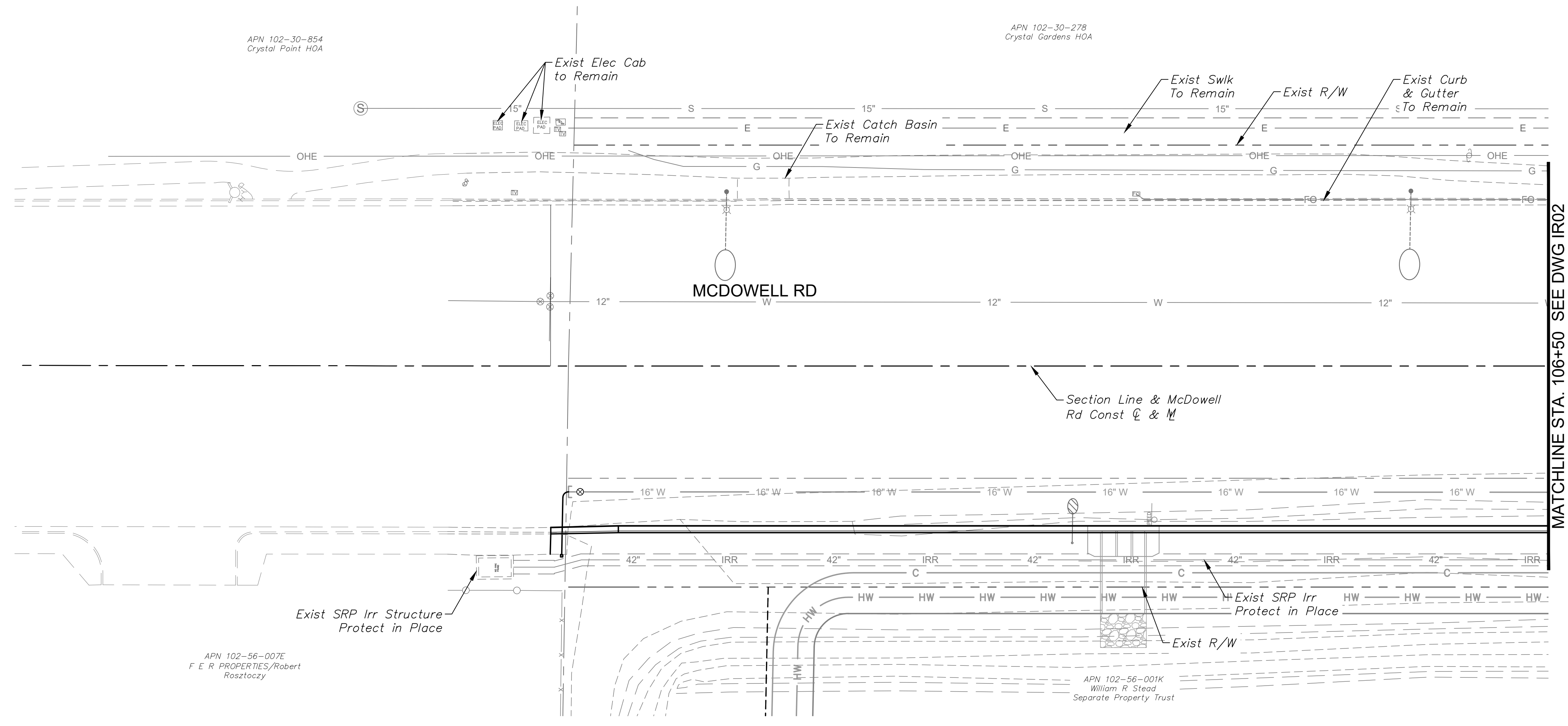
MATERIALS AND EQUIPMENT	
SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A B	Controller - LEIT 4006 Solar Controller, 6-Station
⊙	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
M	Master Valve - Rain Bird 100 EFB-CP 1"
Ⓢ	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE	
SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

PIPE SCHEDULE	
SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
---	Mainline: 2" Schedule 40 PVC
---	Palm Drip Lateral: Class 200
— T —	Tree Drip Lateral: Class 200
— S —	Shrub Drip Lateral: Class 200

VALVE ZONE	LATERAL PIPE SIZING	
	DRIP-SHRUBS	PIPE SIZE
VALVE FLOW	5.8 GPM	3/4"
	1" #	1"
VALVE #		
VALVE SIZE		

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
 - Existing plant material shall be continuously watered during construction through hand watering or other means.
 - Contractor shall maintain functionality of the existing system outside of the project limits. Coordinate with the City of Avondale and property owners for tie-ins and temporary interruptions to service.



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR01
DRAWING HORZ:	1" = 20'
SCALE: VERT:	N/A

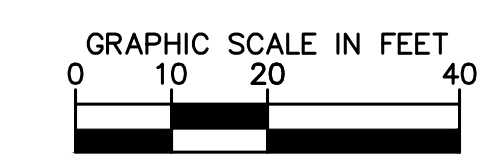
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IRRIGATION PLAN
 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

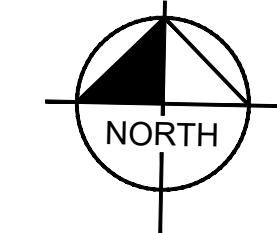
PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
 10-5-2018

SHEET NUMBER
 71 OF 84
 PROJECT NUMBER
 ST1224



Plotted By: Rodriguez, David - Street - Sct: McDowell Road - Layout: IRR02 - October 10, 2018 04:36:13pm K:\PHX_Roadway\181323121 - 107th Avenue and McDowell Road\Cord\12 - Streets_Landscape\181323121 - IRR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

- | SYM | MANUFACTURER / MODEL / DESCRIPTION |
|-------------------------------------|---|
| <input checked="" type="checkbox"/> | Water Meter - 1" Service |
| <input checked="" type="checkbox"/> | Controller - LEIT 4006 Solar Controller, 6-Station |
| | Backflow Preventer and Enclosure
1" FEBCO 8257A, Guardshack GS-2 |
| | Master Valve - Rain Bird 100 EFB-CP 1" |
| | Flow Sensor - Rain Bird FS100B 1" Brass |
| | Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter |
| | Flush End Cap |
| <i>Not Shown</i> | Rain Bird XBT-20-6 (1 per tree, 5 ports open)
Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max)
Rain Bird RWS-B-C-1402 (2 per palm) |

SLEEVE SCHEDULE

- | SYM | SIZE & DESCRIPTION |
|-----|--|
| | Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal
"X" Indicates Quantity |

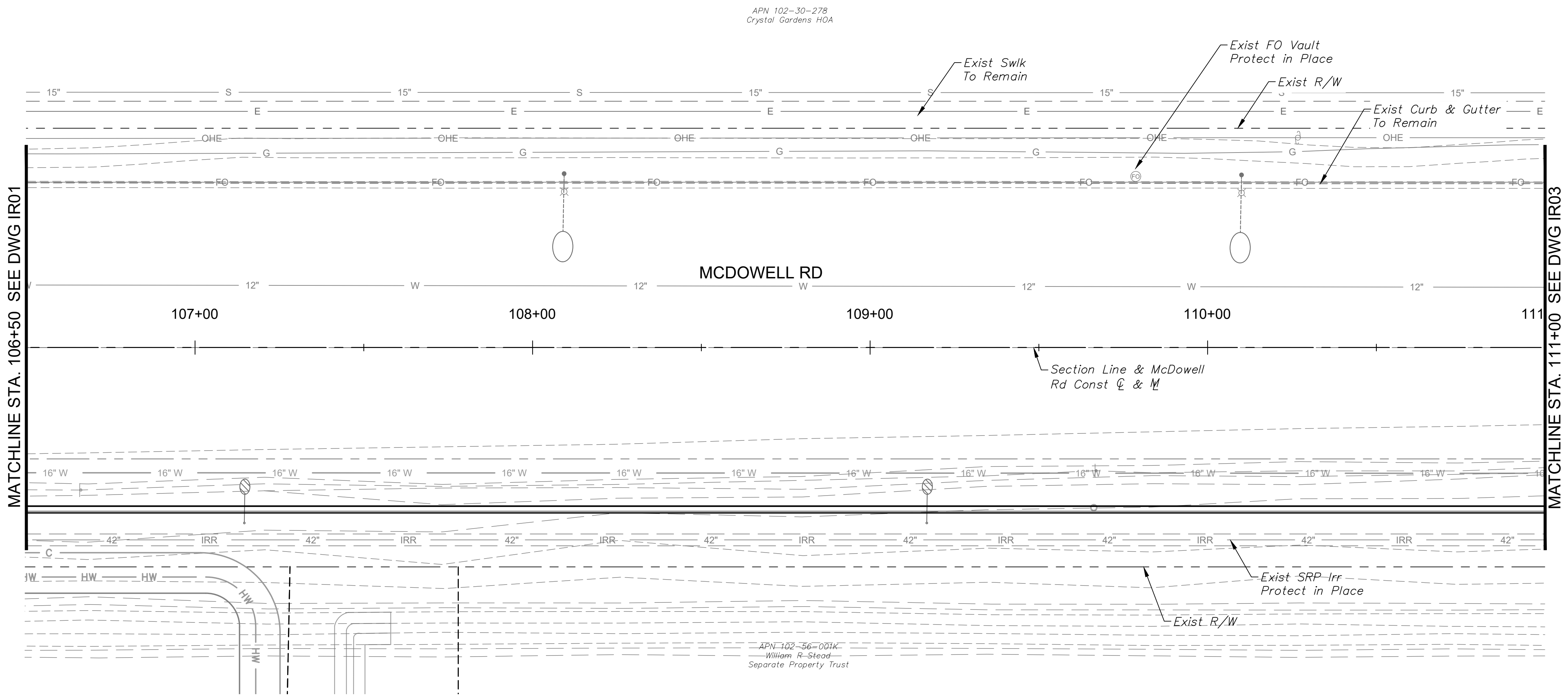
PIPE SCHEDULE

- | SYM | SIZE & DESCRIPTION |
|-----|---|
| | Mainline Type 'K' Copper Service Tubing |
| | Mainline: 2" Schedule 40 PVC |
| | Palm Drip Lateral: Class 200 |
| | Tree Drip Lateral: Class 200 |
| | Shrub Drip Lateral: Class 200 |

VALVE ZONE	LATERAL PIPE SIZING	
	GPM FLOW	PIPE SIZE
	0 - 8.0	3/4"
	8.1 - 13.0	1"

NOTES

- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
- Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
- Existing plant material shall be continuously watered during construction through hand watering or other means.
- Contractor shall maintain functionality of the existing system outside of the project limits. Coordinate with the City of Avondale and property owners for tie-ins and temporary interruptions to service.

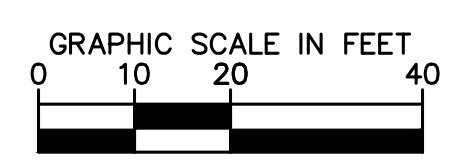


MATCHLINE STA. 106+50 SEE DWG IRR01

MATCHLINE STA. 111+00 SEE DWG IRR03

APN 102-30-278
Crystal Gardens HOA

APN 102-36-001K
William R. Stead
Separate Property Trust



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IRR02
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

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7140 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

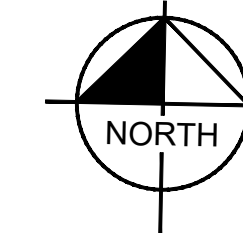
IRRIGATION PLAN
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
LATEST REVISION DATE

SHEET NUMBER
72 OF 84
PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David - Street - Sct: McDowell Road - Layout: IRR03 - October 10, 2018 - 04:34:20pm - K:\PHX_Roadwork\191323121 - 107th Avenue and McDowell Road - Coord\12-Sheets\Landscape\191323121-IRR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A B	Controller - LEIT 4006 Solar Controller, 6-Station
⊖	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
M	Master Valve - Rain Bird 100 EFB-CP 1"
Ⓢ	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

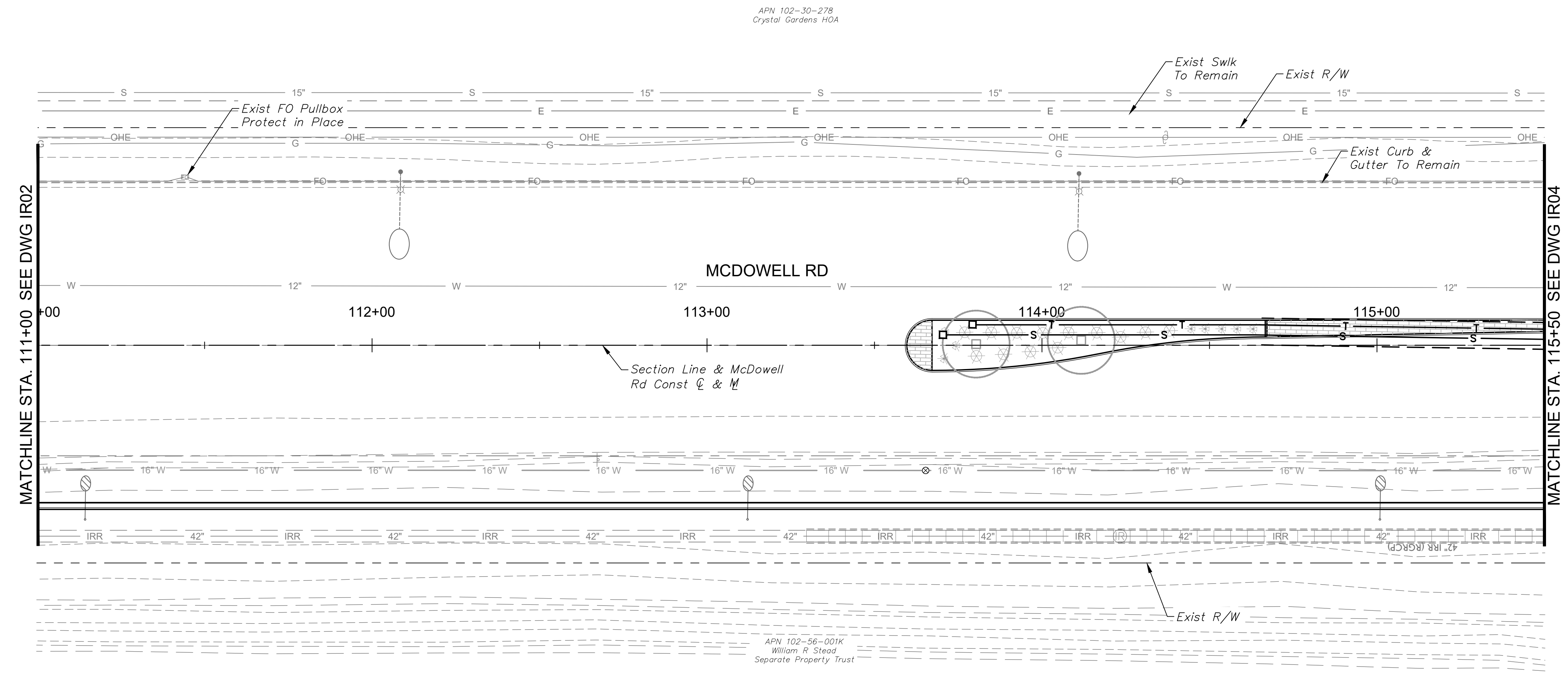
PIPE SCHEDULE

SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
- - -	Mainline: 2" Schedule 40 PVC
— T —	Palm Drip Lateral: Class 200
— S —	Tree Drip Lateral: Class 200
— s —	Shrub Drip Lateral: Class 200

VALVE ZONE	LATERAL PIPE SIZING	
	GPM FLOW	PIPE SIZE
DRIP-SHRUBS	0 - 8.0	3/4"
	8.1 - 13.0	1"

VALVE FLOW: 5.8 GPM, VALVE #, VALVE SIZE

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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APN 102-30-278
Crystal Gardens HOA

APN 102-56-001K
William R Stead
Separate Property Trust

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IRR03
DRAWING SCALE:	1" = 20'
VERT. SCALE:	N/A

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Phoenix, Arizona 85020 (602) 944-5500

IRRIGATION PLAN
107TH AVENUE & MCDOWELL ROAD INTERSECTION
ST1224

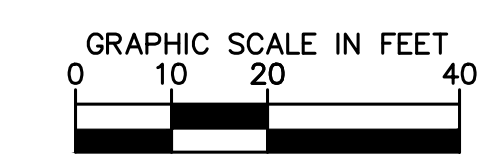
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

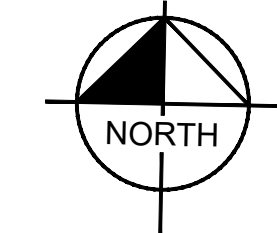
LATEST REVISION DATE
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SHEET NUMBER
73 OF 84

PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David - Street, Sct: McDowell Road - Layout: IR04 - October 10, 2018 04:34:27pm K:\PHX_Roadwork\191323121 - 107th Avenue and McDowell Road - Coord\12-Sheets\Landscape\191323121-IR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A B	Controller - LEIT 4006 Solar Controller, 6-Station
⊙	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
M	Master Valve - Rain Bird 100 EFB-CP 1"
Ⓢ	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

PIPE SCHEDULE

SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
- - -	Mainline: 2" Schedule 40 PVC
— T —	Palm Drip Lateral: Class 200
— S —	Tree Drip Lateral: Class 200
— s —	Shrub Drip Lateral: Class 200

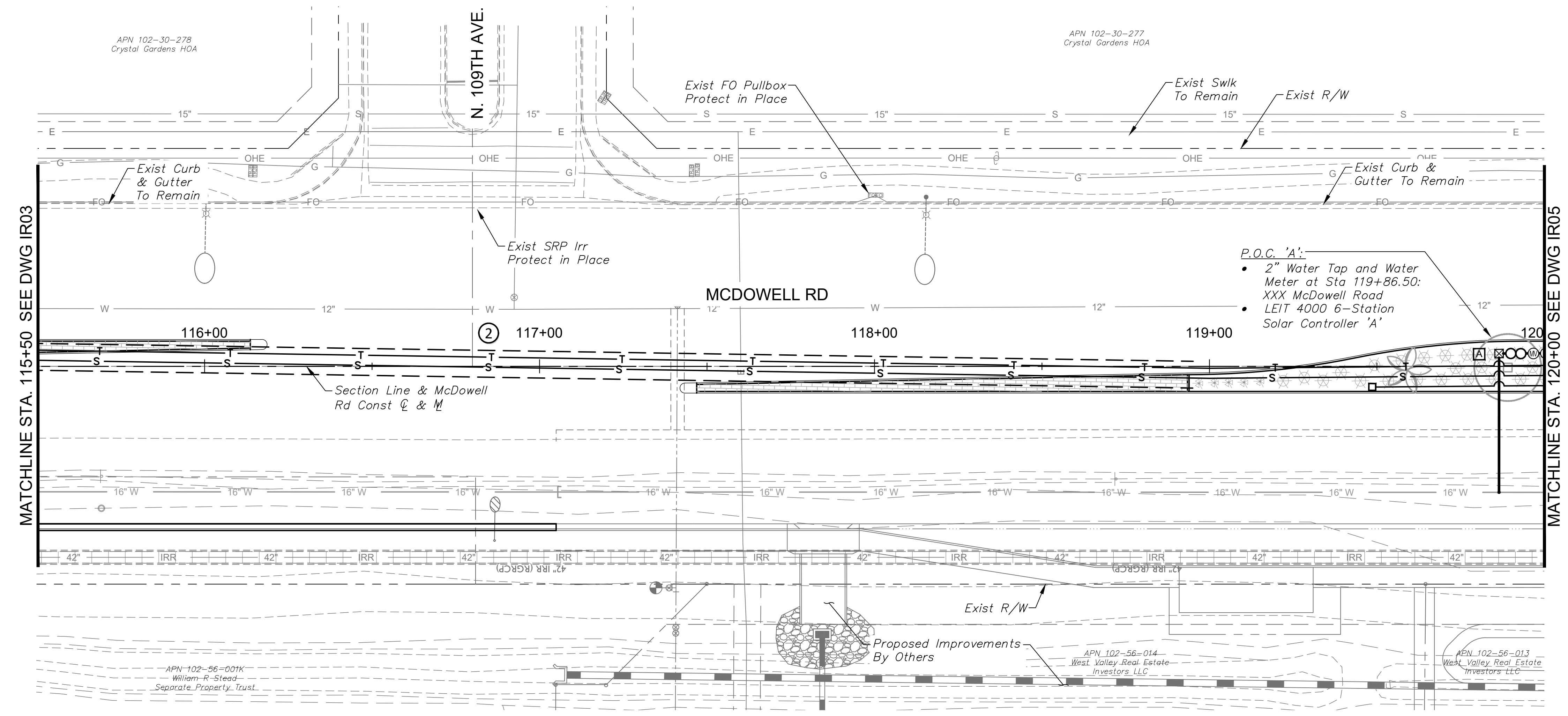
VALVE ZONE

VALVE ZONE		LATERAL PIPE SIZING	
DRIP-SHRUBS	VALVE #	GPM FLOW	PIPE SIZE
5.8 GPM	1"	0 - 8.0	3/4"
		8.1 - 13.0	1"

VALVE FLOW

NOTES

- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
- Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR04
DRAWING HORIZ. SCALE:	1" = 20'
VERT. SCALE:	N/A

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IRRIGATION PLAN
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER
ST1224

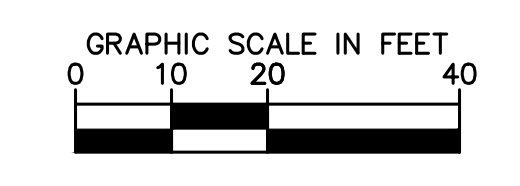
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

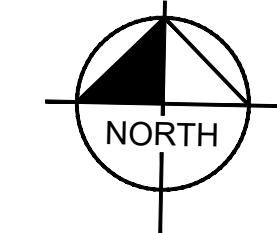
LATEST REVISION DATE
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SHEET NUMBER
74 OF 84

PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Street: Set: McDowell Road Layout: IR05 October 10, 2018 04:34:37pm K:\PHX_Roadwork\19123121-107th Avenue and McDowell Road\Coord\12-Sheets\Landscapes\19123121-IR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
SYM	MANUFACTURER / MODEL / DESCRIPTION
<input checked="" type="checkbox"/>	Water Meter - 1" Service
A B	Controller - LEIT 4006 Solar Controller, 6-Station
	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
	Master Valve - Rain Bird 100 EFB-CP 1"
	Flow Sensor - Rain Bird FS100B 1" Brass
	Rain Bird X CZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
	Flush End Cap
<i>Not Shown</i>	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

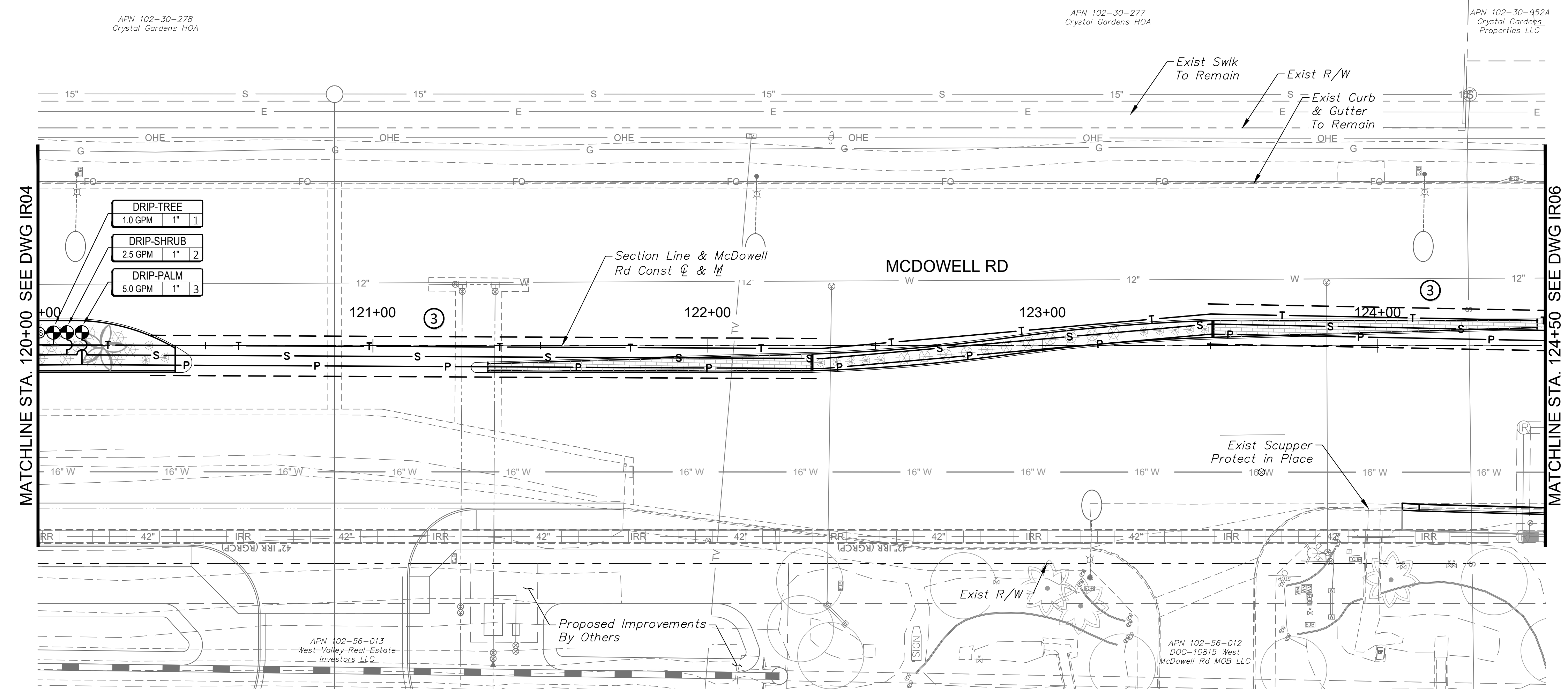
SLEEVE SCHEDULE	
SYM	SIZE & DESCRIPTION
	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

PIPE SCHEDULE	
SYM	SIZE & DESCRIPTION
	Mainline Type 'K' Copper Service Tubing
	Mainline: 2" Schedule 40 PVC
	Palm Drip Lateral: Class 200
	Tree Drip Lateral: Class 200
	Shrub Drip Lateral: Class 200

VALVE ZONE	LATERAL PIPE SIZING	
	GPM FLOW	PIPE SIZE
	0 - 8.0	3/4"
	8.1 - 13.0	1"

VALVE FLOW	VALVE #	VALVE SIZE
5.8 GPM	1"	#

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR05
DRAWING HORIZ. SCALE:	1" = 20'
VERT. SCALE:	N/A

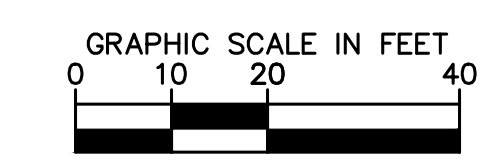
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IRRIGATION PLAN
107TH AVENUE & MCDOWELL ROAD INTERSECTION
ST1224

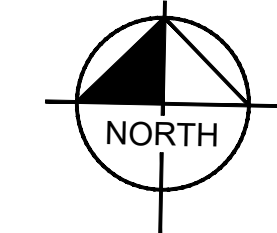
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

LATEST REVISION DATE
- - -
SHEET NUMBER
75 OF 84
PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Street: Set: McDowell Road Layout: IR06 October 10, 2018 04:34:46pm K:\PHX_Roadwork\19123121-107th Avenue and McDowell Road\Cadd\12-Sheets\Landscaping\19123121-IR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
SYM	MANUFACTURER / MODEL / DESCRIPTION
<input checked="" type="checkbox"/>	Water Meter - 1" Service
A B	Controller - LEIT 4006 Solar Controller, 6-Station
	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
	Master Valve - Rain Bird 100 EFB-CP 1"
	Flow Sensor - Rain Bird FS100B 1" Brass
	Rain Bird X CZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
	Flush End Cap
<i>Not Shown</i>	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

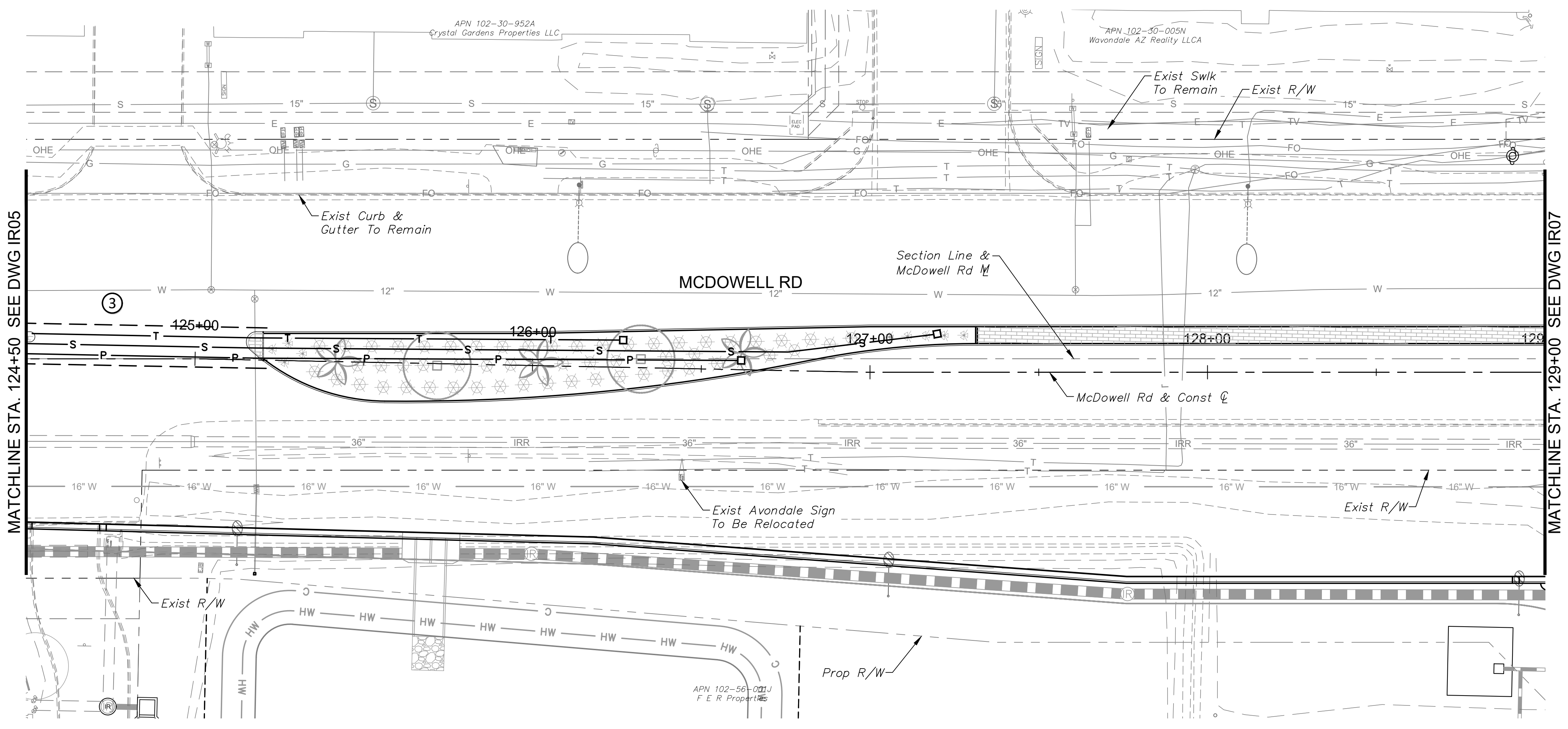
SLEEVE SCHEDULE	
SYM	SIZE & DESCRIPTION
	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

PIPE SCHEDULE	
SYM	SIZE & DESCRIPTION
	Mainline Type 'K' Copper Service Tubing
	Mainline: 2" Schedule 40 PVC
	Palm Drip Lateral: Class 200
	Tree Drip Lateral: Class 200
	Shrub Drip Lateral: Class 200

VALVE ZONE	LATERAL PIPE SIZING	
	GPM FLOW	PIPE SIZE
	0 - 8.0	3/4"
	8.1 - 13.0	1"

VALVE FLOW	VALVE #	VALVE SIZE
5.8 GPM	1"	#

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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MATCHLINE STA. 124+50 SEE DWG IR05

MATCHLINE STA. 129+00 SEE DWG IR07

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR06
DRAWING SCALE:	1" = 20'
VERT. SCALE:	N/A

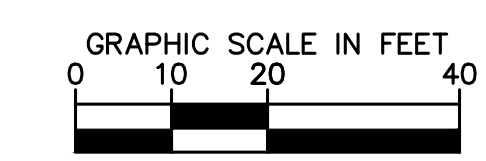
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IRRIGATION PLAN
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER
ST1224

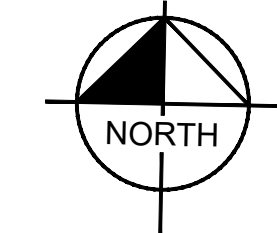
PRELIMINARY
60%
NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
76 OF 84
PROJECT NUMBER
ST1224



Plotted By: Rodriquez, David Street Set: McDowell Road Layout: IR07 October 10, 2018 04:34:52pm K:\PHX_Roadwork\191323121 - 107th Avenue and McDowell Road\Cadd\12-Sheets\Landscape\191323121-IR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT	
SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A/B	Controller - LEIT 4006 Solar Controller, 6-Station
⊖	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
M	Master Valve - Rain Bird 100 EFB-CP 1"
Ⓢ	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XEZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

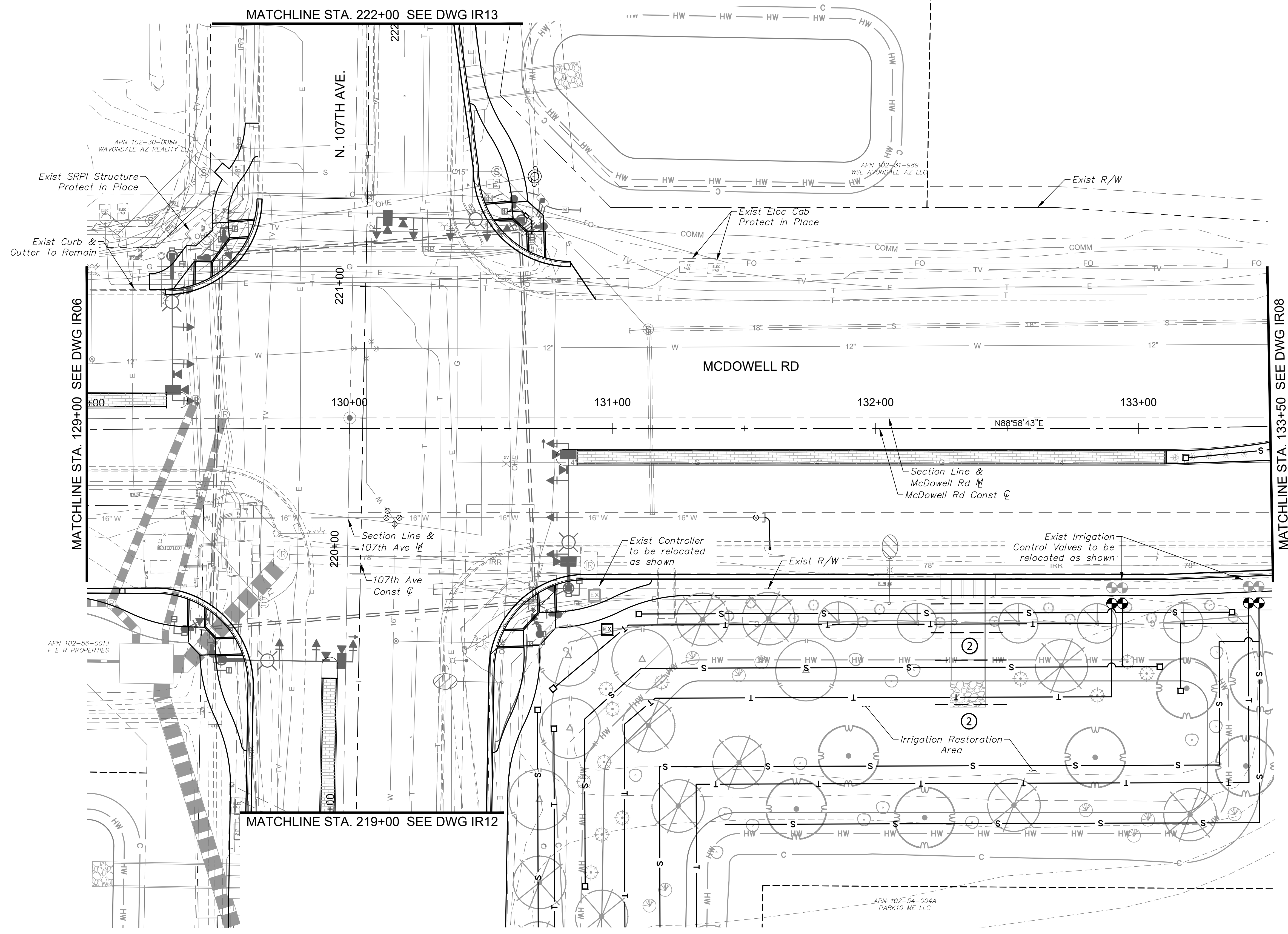
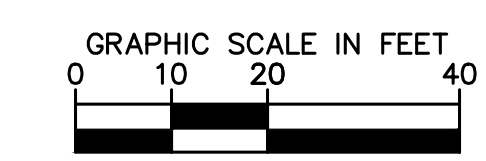
SLEEVE SCHEDULE	
SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

PIPE SCHEDULE	
SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
---	Mainline: 2" Schedule 40 PVC
---	Palm Drip Lateral: Class 200
— T —	Tree Drip Lateral: Class 200
— S —	Shrub Drip Lateral: Class 200

VALVE ZONE	LATERAL PIPE SIZING	
VALVE FLOW	GPM FLOW	PIPE SIZE
DRIP-SHRUBS	0 - 8.0	3/4"
	8.1 - 13.0	1"
		VALVE #
		VALVE SIZE

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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 - Contractor shall maintain functionality of the existing system outside of the project limits. Coordinate with the City of Avondale and property owners for tie-ins and temporary interruptions to service.

EXISTING IRRIGATION SYSTEM NOTES:
 This irrigation system designed for the retention basin at the southeast corner of 107th Ave. & McDowell Rd. and along the east side of 107th Ave. south of McDowell Rd. is intended to utilize an existing irrigation meter, backflow preventer, and control valves with newly installed pipe, fittings, and other appurtenances as necessary to complete the irrigation system. The layout of the existing system is not known. The design shown on the plans is for the Contractor's convenience only and is not reflective of as-built conditions. Contractor shall modify the existing system as necessary to ensure a 100% complete, fully operational irrigation system to all new and existing plantings.



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR07
DRAWING HORIZ:	1" = 20'
SCALE:	VERT. N/A

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 7740 North 16th Street, Suite 300
 Phoenix, Arizona 85020 (602) 944-5500

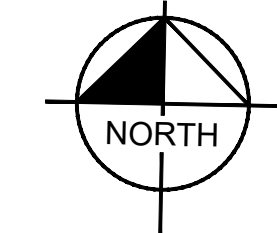
SHEET TYPE: IRRIGATION PLAN
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE:
10-5-2018
 LATEST REVISION DATE:

SHEET NUMBER:
77 OF 84
 PROJECT NUMBER:
ST1224

Plotted By: Rodriguez, David Street: Sct: McDowell Road Layout: IRO8 October 10, 2018 04:35:01pm K:\PHX_Roadway\181323121-107th Avenue and McDowell Road\Cad\12-Sheets\Landscape\181323121-IRO1.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
☒	Controller - LEIT 4006 Solar Controller, 6-Station
☉	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
Ⓜ	Master Valve - Rain Bird 100 EFB-CP 1"
Ⓢ	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
⊗	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

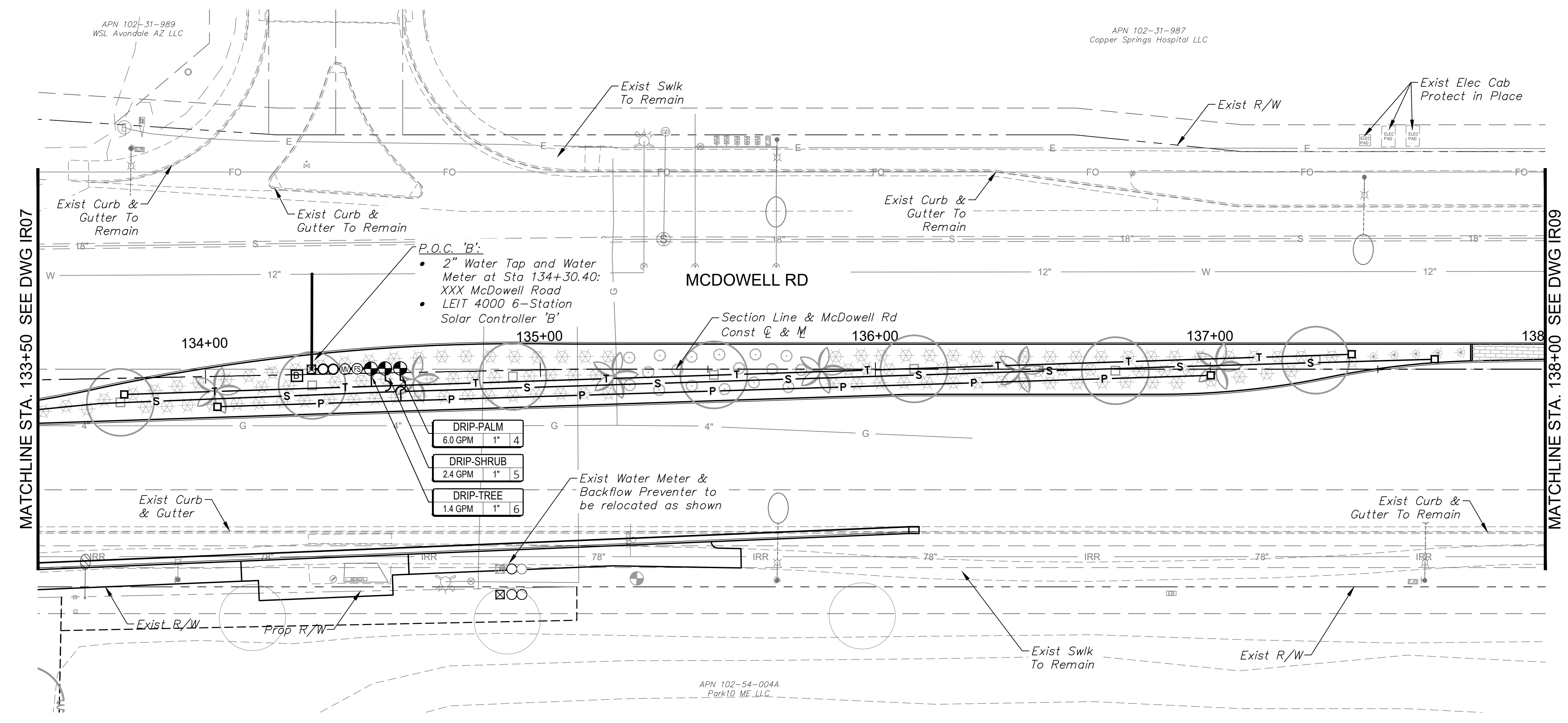
PIPE SCHEDULE

SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
---	Mainline: 2" Schedule 40 PVC
— T —	Palm Drip Lateral: Class 200
— S —	Tree Drip Lateral: Class 200
— s —	Shrub Drip Lateral: Class 200

VALVE ZONE	LATERAL PIPE SIZING	
	GPM FLOW	PIPE SIZE
DRIP-SHRUBS	0 - 8.0	3/4"
	8.1 - 13.0	1"

VALVE FLOW: DRIP-SHRUBS (5.8 GPM, 1", #)
VALVE #
VALVE SIZE

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR08
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	N/A

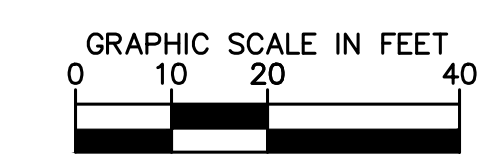
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Phoenix, Arizona 85020 (602) 944-5500

IRRIGATION PLAN
107TH AVENUE & MCDOWELL ROAD INTERSECTION
ST1224

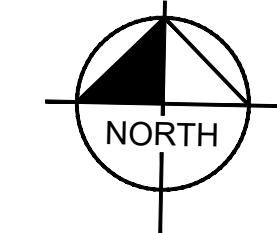
PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
78 OF 84
PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David - Street - Set: McDowell Road - Layout: IR09 - October 10, 2018 04:35:04pm K:\PHX_Roadwork\191323121 - 107th Avenue and McDowell Road - Coord\12 - Sheets\Landscaping\191323121-IR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A B	Controller - LEIT 4006 Solar Controller, 6-Station
⊙	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
Ⓜ	Master Valve - Rain Bird 100 EFB-CP 1"
Ⓢ	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

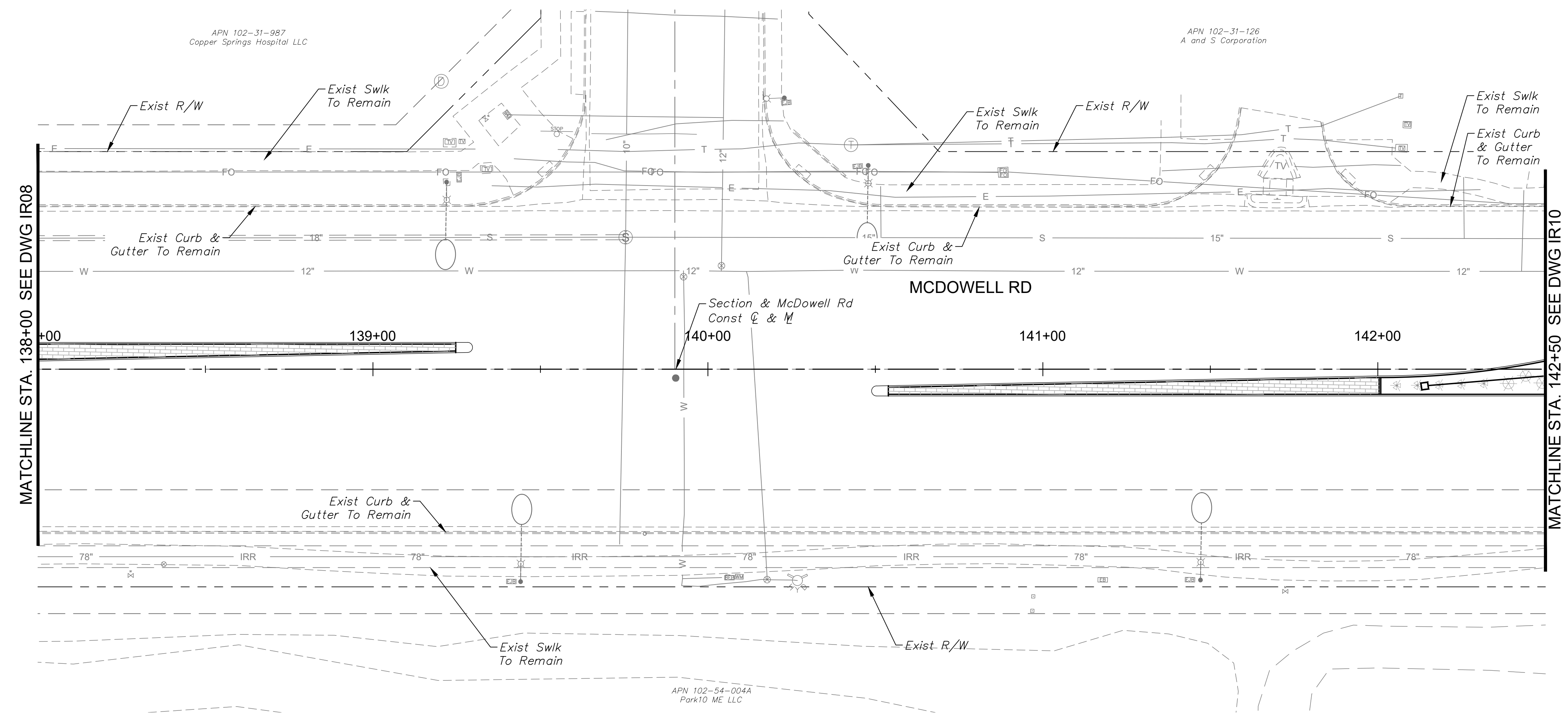
PIPE SCHEDULE

SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
- - -	Mainline: 2" Schedule 40 PVC
— T —	Palm Drip Lateral: Class 200
— S —	Shrub Drip Lateral: Class 200

VALVE ZONE	LATERAL PIPE SIZING	
	GPM FLOW	PIPE SIZE
DRIP-SHRUBS	0 - 8.0	3/4"
	8.1 - 13.0	1"

VALVE FLOW: 5.8 GPM | VALVE # | VALVE SIZE

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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 - Contractor shall maintain functionality of the existing system outside of the project limits. Coordinate with the City of Avondale and property owners for tie-ins and temporary interruptions to service.



DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR09
DRAWING HORIZ. SCALE:	1" = 20'
VERT. SCALE:	N/A

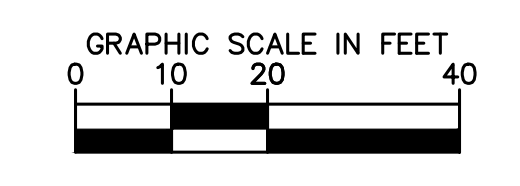
Kimley»Horn
 © 2018 KIMLEY-HORN AND ASSOCIATES, INC.
 7740 North 16th Street, Suite 300
 Phoenix, Arizona 85020 (602) 944-5500

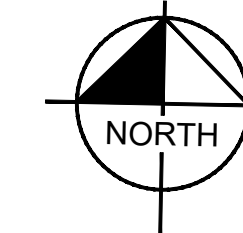
IRRIGATION PLAN
 PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
 LATEST REVISION DATE: - - -

SHEET NUMBER: 79 OF 84
 PROJECT NUMBER: ST1224





IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A/B	Controller - LEIT 4006 Solar Controller, 6-Station
⊙	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
M	Master Valve - Rain Bird 100 EFB-CP 1"
⊕	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

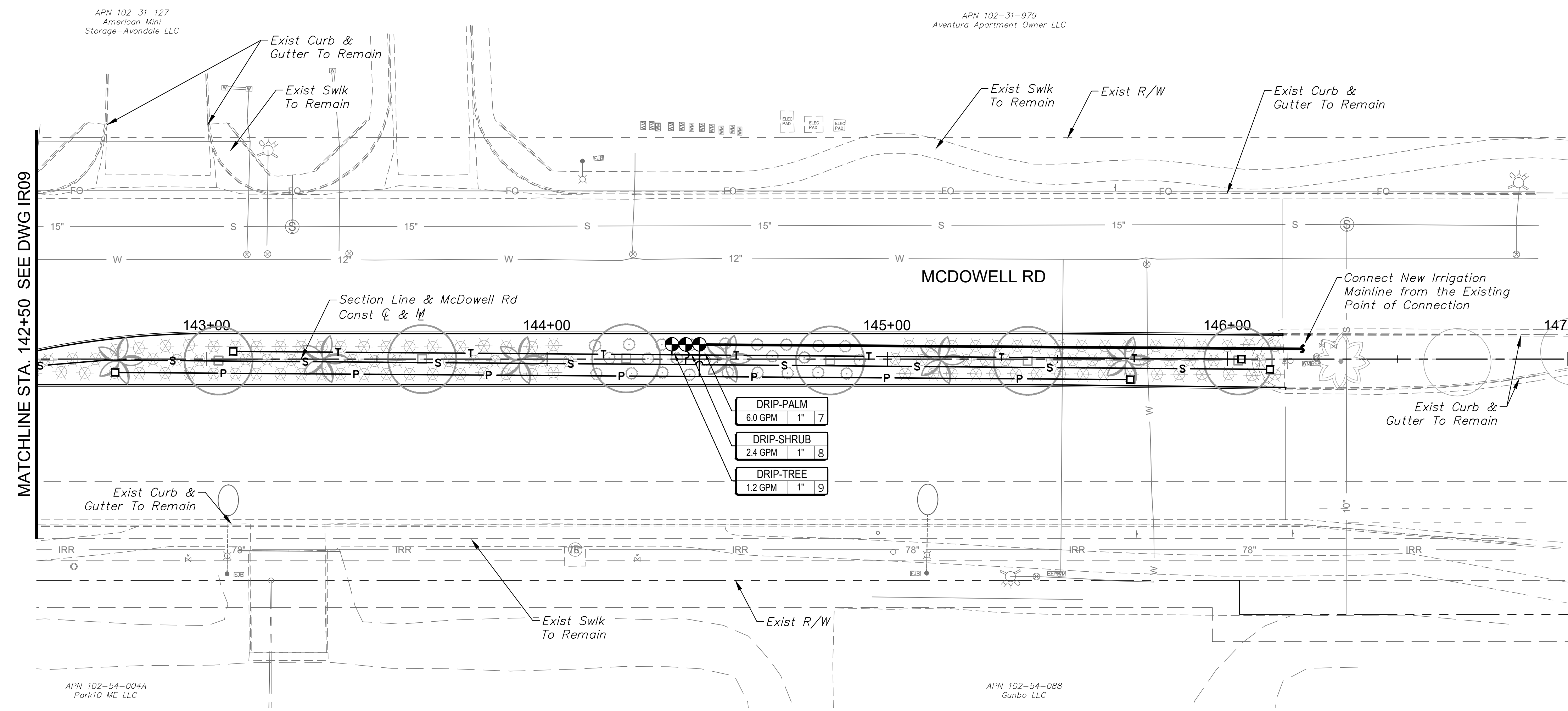
PIPE SCHEDULE

SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
- - -	Mainline: 2" Schedule 40 PVC
— T —	Palm Drip Lateral: Class 200
— S —	Shrub Drip Lateral: Class 200

VALVE ZONE

VALVE ZONE		LATERAL PIPE SIZING	
DRIP-SHRUBS	VALVE #	GPM FLOW	PIPE SIZE
5.8 GPM	1"	0 - 8.0	3/4"
		8.1 - 13.0	1"

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
 - Existing plants to remain shall continue to be watered with existing irrigation system where applicable. Where not feasible, contractor shall provide water with new pipe laterals.
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MATCHLINE STA. 142+50 SEE DWG IR09

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR10
DRAWING HORIZ. SCALE:	1" = 20'
DRAWING VERT. SCALE:	N/A

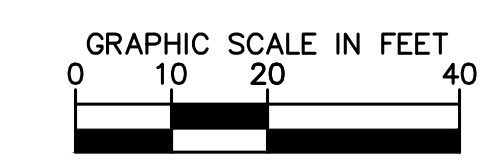
Kimley»Horn
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Phoenix, Arizona 85020 (602) 944-5500

IRRIGATION PLAN
107TH AVENUE & MCDOWELL ROAD INTERSECTION
ST1224

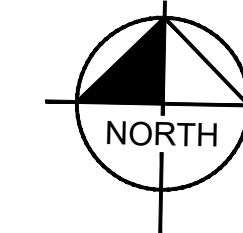
PRELIMINARY
60%
NOT FOR
CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018

SHEET NUMBER
80 OF 84
PROJECT NUMBER
ST1224



Plotted By: Rodriguez, David Street: Set: McDowell Road Layout: IR11 October 10, 2018 04:35:16pm K:\PHK_Roadway\191323121 -107th Avenue and McDowell Road\Cadd\12- Streets Landscape\191323121-IR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
Ⓐ Ⓑ	Controller - LEIT 4006 Solar Controller, 6-Station
⊙	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
Ⓜ	Master Valve - Rain Bird 100 EFB-CP 1"
Ⓢ	Flow Sensor - Rain Bird FS100B 1" Brass
⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
⊗	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

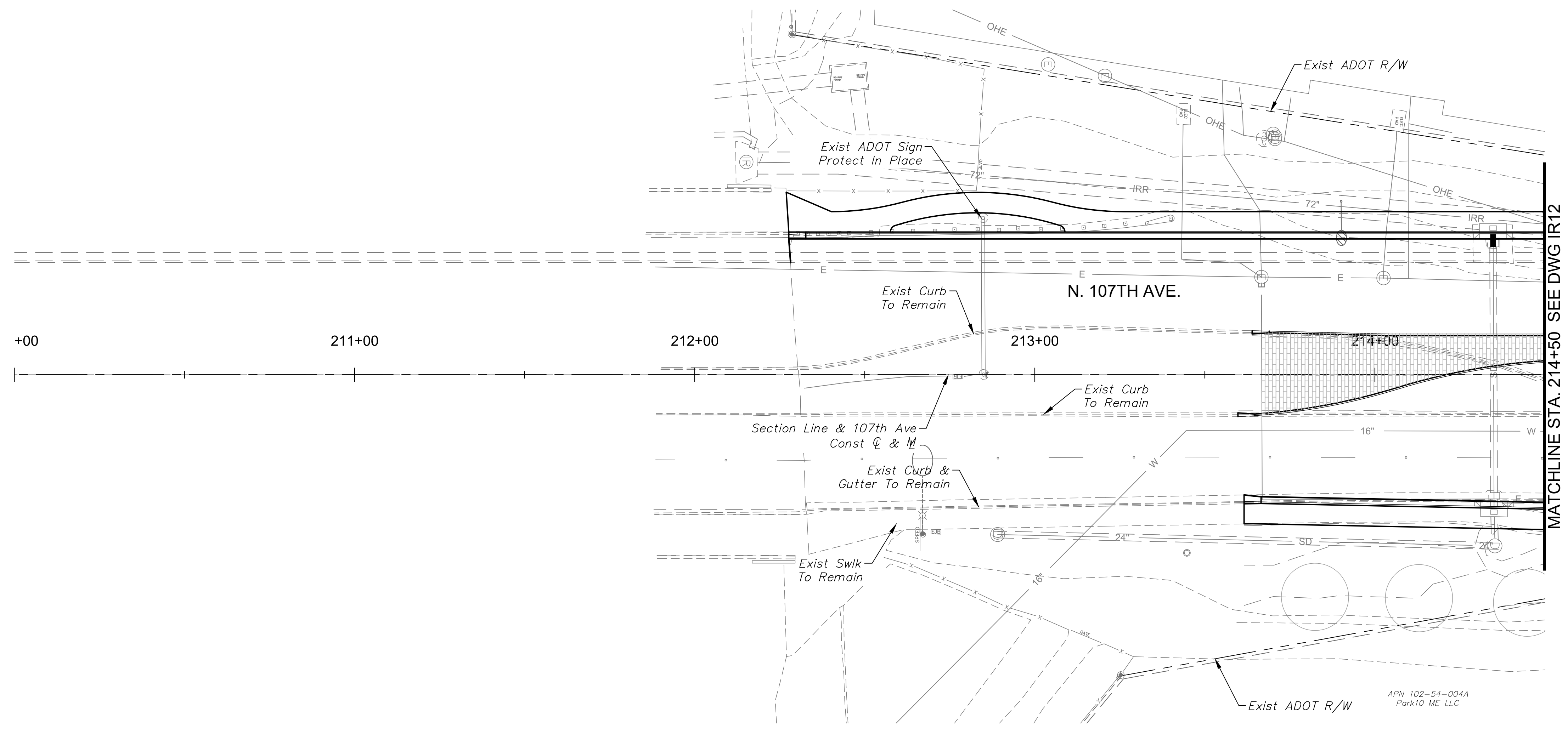
PIPE SCHEDULE

SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
---	Mainline: 2" Schedule 40 PVC
---	Palm Drip Lateral: Class 200
— T —	Tree Drip Lateral: Class 200
— S —	Shrub Drip Lateral: Class 200

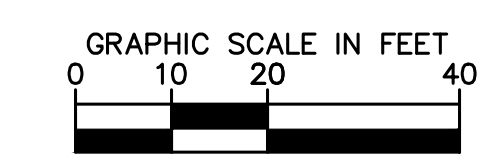
VALVE ZONE	LATERAL PIPE SIZING	
DRIP-SHRUBS	GPM FLOW	PIPE SIZE
5.8 GPM 1" #	0 - 8.0	3/4"
	8.1 - 13.0	1"

VALVE FLOW — VALVE # — VALVE SIZE

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
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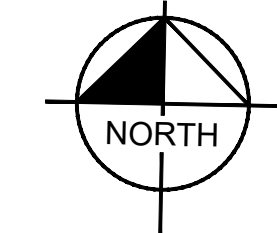


EXISTING IRRIGATION SYSTEM NOTES:
 This irrigation system designed for the retention basin at the southeast corner of 107th Ave. & McDowell Rd. and along the east side of 107th Ave. south of McDowell Rd. is intended to utilize an existing irrigation meter, backflow preventer, and control valves with newly installed pipe, fittings, and other appurtenances as necessary to complete the irrigation system. The layout of the existing system is not known. The design shown on the plans is for the Contractor's convenience only and is not reflective of as-built conditions. Contractor shall modify the existing system as necessary to ensure a 100% complete, fully operational irrigation system to all new and existing plantings.



DRAWN BY: JLW DESIGNED BY: ASD CHECKED BY: ASD SHEET DWG: IR11 DRAWING HORZ: 1" = 20' SCALE(V): N/A	<h1 style="margin: 0;">Kimley»Horn</h1> <p style="font-size: small; margin: 0;">© 2018 KIMLEY-HORN AND ASSOCIATES, INC. 7740 North 16th Street, Suite 300 Phoenix, Arizona 85020 (602) 944-5500</p>	SHEET TYPE: IRRIGATION PLAN PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION PROJECT NUMBER: ST1224
PRELIMINARY <h2 style="margin: 0;">60%</h2> NOT FOR CONSTRUCTION		
ORIGINAL PLAN DATE: 10-5-2018 LATEST REVISION DATE:		
SHEET NUMBER: 81 OF 84 PROJECT NUMBER: ST1224		

Plotted By: Rodriguez, David Street, Set: McDowell Road Layout, IR12, October 10, 2018, 04:35:26pm K:\PHX_Roadway\181323121-107th Avenue and McDowell Road\Card V12-Sheets\Landscape\181323121-IR01.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A/B	Controller - LEIT 4006 Solar Controller, 6-Station
⊙	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
M	Master Valve - Rain Bird 100 EFB-CP 1"
⊕	Flow Sensor - Rain Bird FS100B 1" Brass
⊙	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

PIPE SCHEDULE

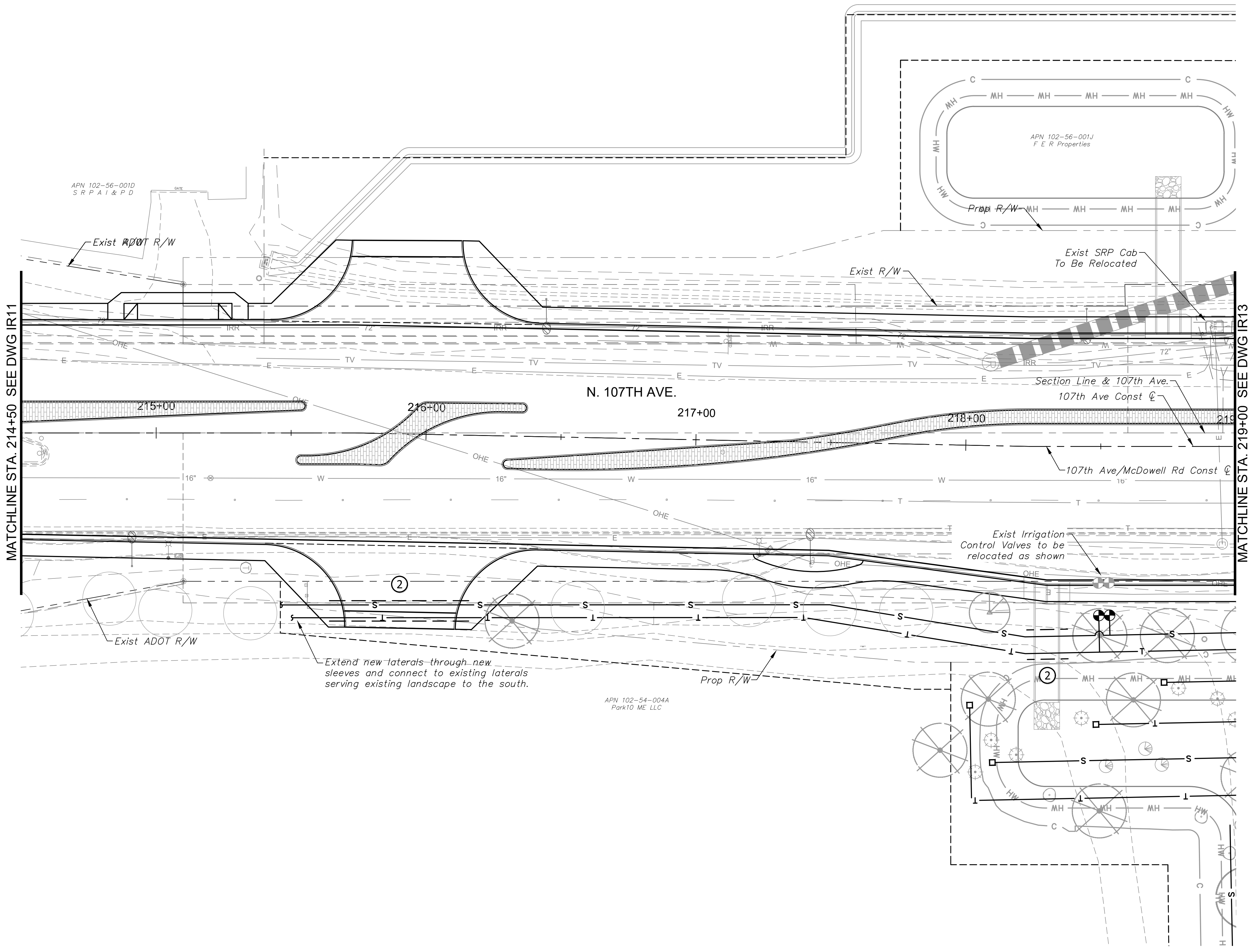
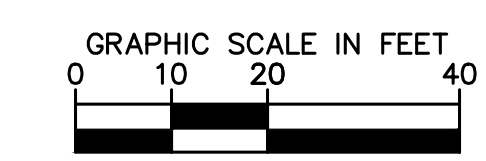
SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
---	Mainline: 2" Schedule 40 PVC
---	Palm Drip Lateral: Class 200
— T —	Tree Drip Lateral: Class 200
— S —	Shrub Drip Lateral: Class 200

VALVE ZONE

VALVE ZONE		LATERAL PIPE SIZING	
DRIP-SHRUBS	VALVE #	GPM FLOW	PIPE SIZE
5.8 GPM	1"	0 - 8.0	3/4"
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DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR12
DRAWING HORIZ:	1" = 20'
SCALE(V):	VERT. N/A

Kimley»Horn

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Phoenix, Arizona 85020 (602) 944-5500

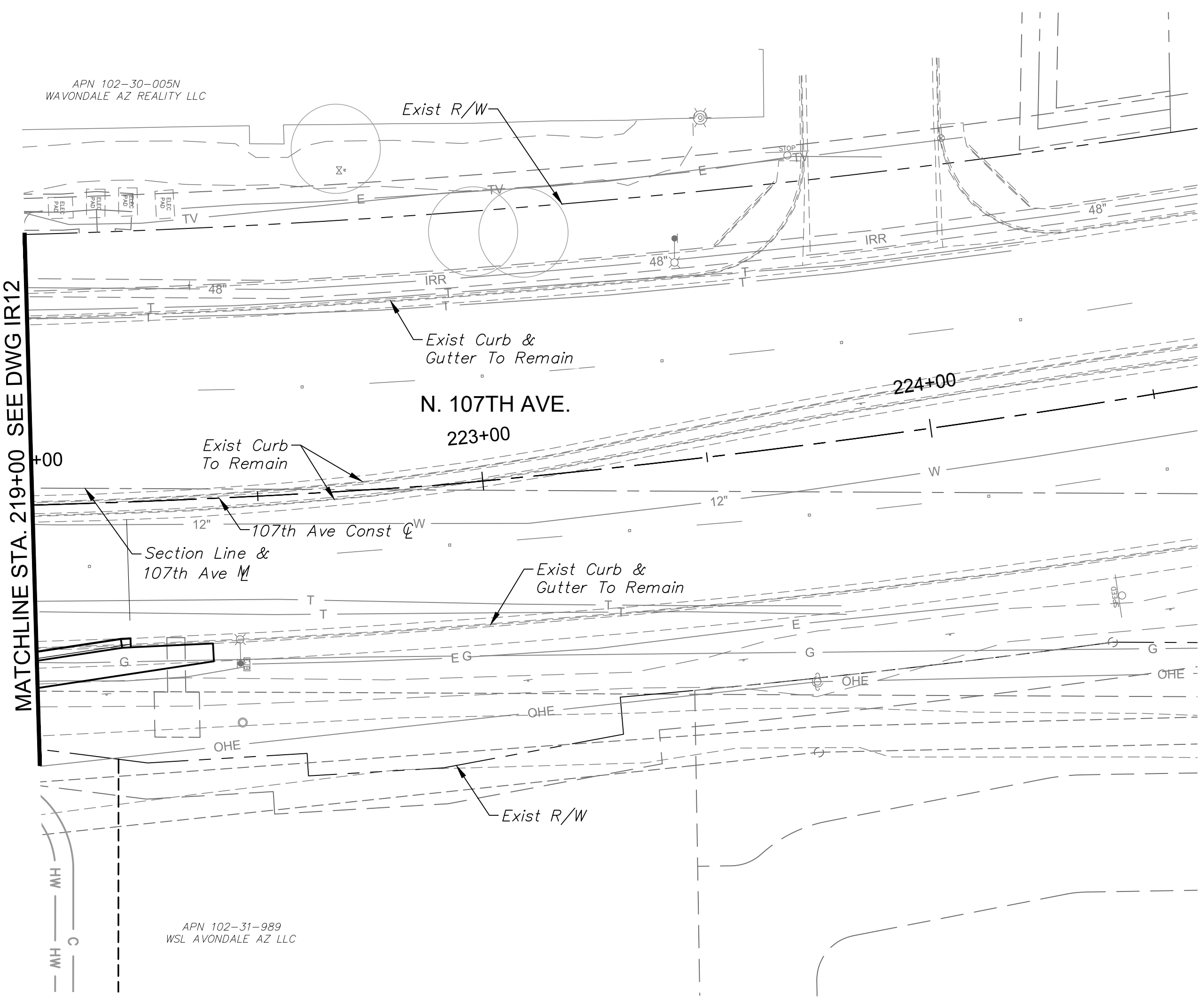
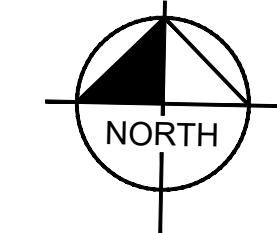
IRRIGATION PLAN
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
LATEST REVISION DATE
-

SHEET NUMBER
82 OF 84
PROJECT NUMBER
ST1224

Plotted By: Rodriguez, David Street: Set: McDowell Road - Layout: IR13 - October 10, 2018 - 04:35:31pm - K:\PHY_Roadway\181323121 - 107th Avenue and McDowell Road\Cadd\12-Sheets_Landscape\181323121-IR1.dwg



IRRIGATION LEGEND

MATERIALS AND EQUIPMENT

SYM	MANUFACTURER / MODEL / DESCRIPTION
☒	Water Meter - 1" Service
A B	Controller - LEIT 4006 Solar Controller, 6-Station
⊙	Backflow Preventer and Enclosure 1" FEBCO 8257A, Guardshack GS-2
Ⓜ	Master Valve - Rain Bird 100 EFB-CP 1"
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⊕	Rain Bird XCZ-100-PESB-COM Drip Control Valve Kit with 1" Ball Valve and Pressure Regulating Basket Filter
□	Flush End Cap
Not Shown	Rain Bird XBT-20-6 (1 per tree, 5 ports open) Rain Bird XBT-10-6 / XBT-05-6 (1 per shrub, 5 ports open max) Rain Bird RWS-B-C-1402 (2 per palm)

SLEEVE SCHEDULE

SYM	SIZE & DESCRIPTION
(X)	Schedule 40 PVC 2" Lateral Sleeve, Spears or Equal "X" Indicates Quantity

PIPE SCHEDULE

SYM	SIZE & DESCRIPTION
—	Mainline Type 'K' Copper Service Tubing
- - -	Mainline: 2" Schedule 40 PVC
— T —	Palm Drip Lateral: Class 200
— S —	Tree Drip Lateral: Class 200
— s —	Shrub Drip Lateral: Class 200

VALVE ZONE

VALVE ZONE		LATERAL PIPE SIZING	
DRIP-SHRUBS	GPM FLOW	PIPE SIZE	VALVE #
5.8 GPM 1" #	0 - 8.0	3/4"	
	8.1 - 13.0	1"	

- NOTES**
- Irrigation pipe routing and equipment are diagrammatically shown and shall be field adjusted to avoid conflicts with and disturbance of existing utility locations and existing plant material.
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DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IR13
DRAWING SCALE:	1" = 20'
VERT. SCALE:	N/A

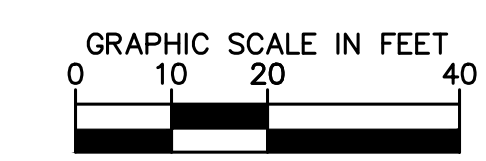
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Phoenix, Arizona 85020 (602) 944-5500

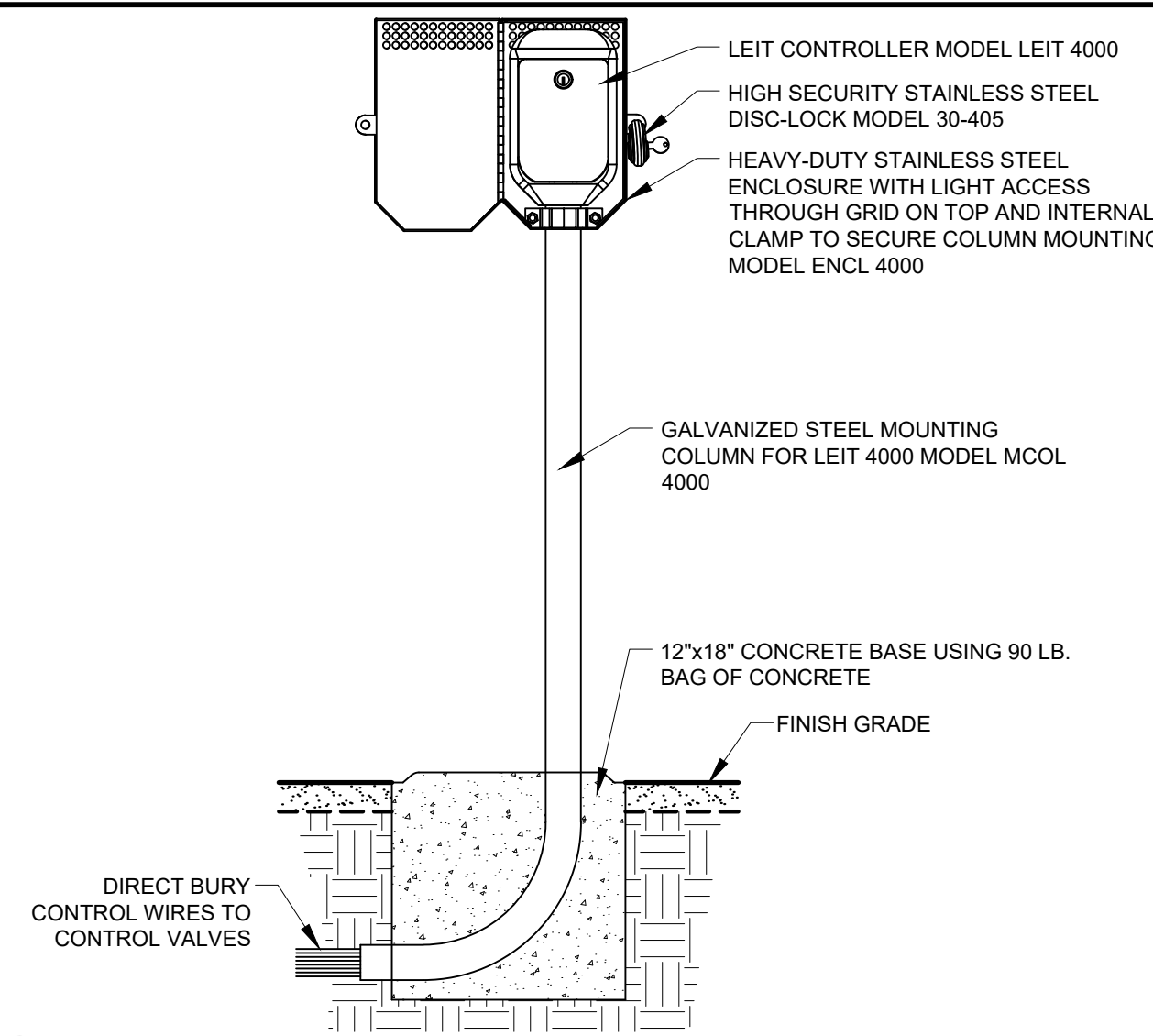
IRRIGATION PLAN
PROJECT NAME: 107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: - - -

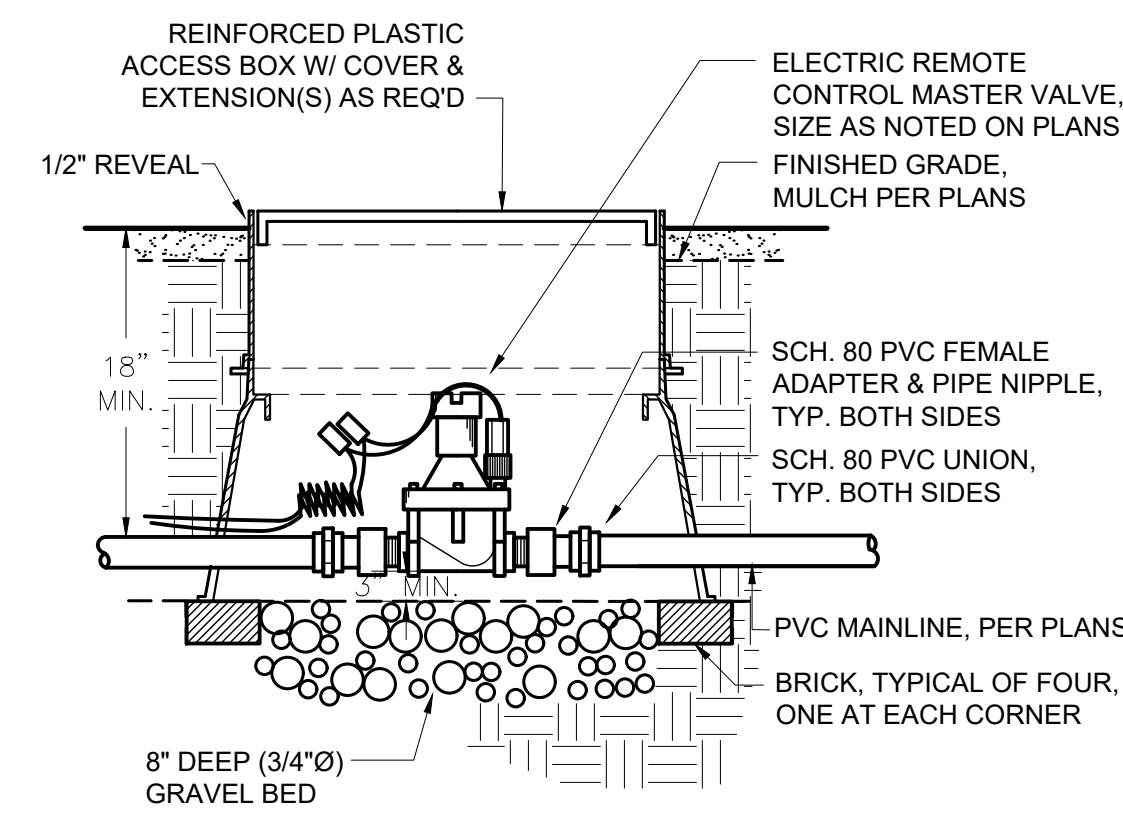
SHEET NUMBER: 83 OF 84
PROJECT NUMBER: ST1224





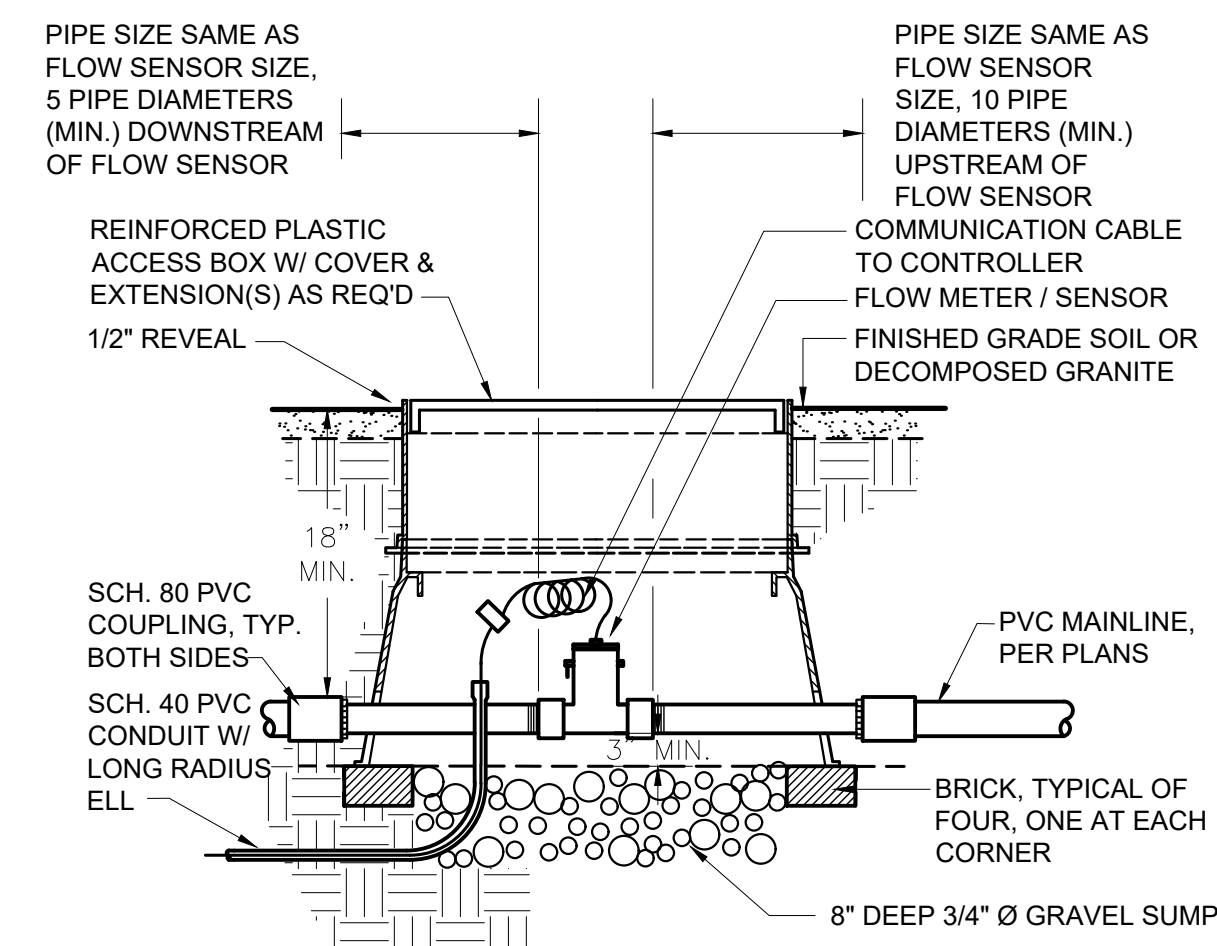
1 SOLAR IRRIGATION CONTROLLER
SCALE: N.T.S.

- NOTES:**
1. ALL WIRES TO BE INSTALLED PER LOCAL CODE. TAPE AND BUNDLE WIRES EVERY 7'. PROVIDE EXPANSION COIL AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 1/2" Ø PIPE 15 TIMES).
 2. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS ADJACENT UNDISTURBED SOIL.
 3. ALL THREADED PVC JOINTS SHALL BE WRAPPED WITH TEFLON TAPE.

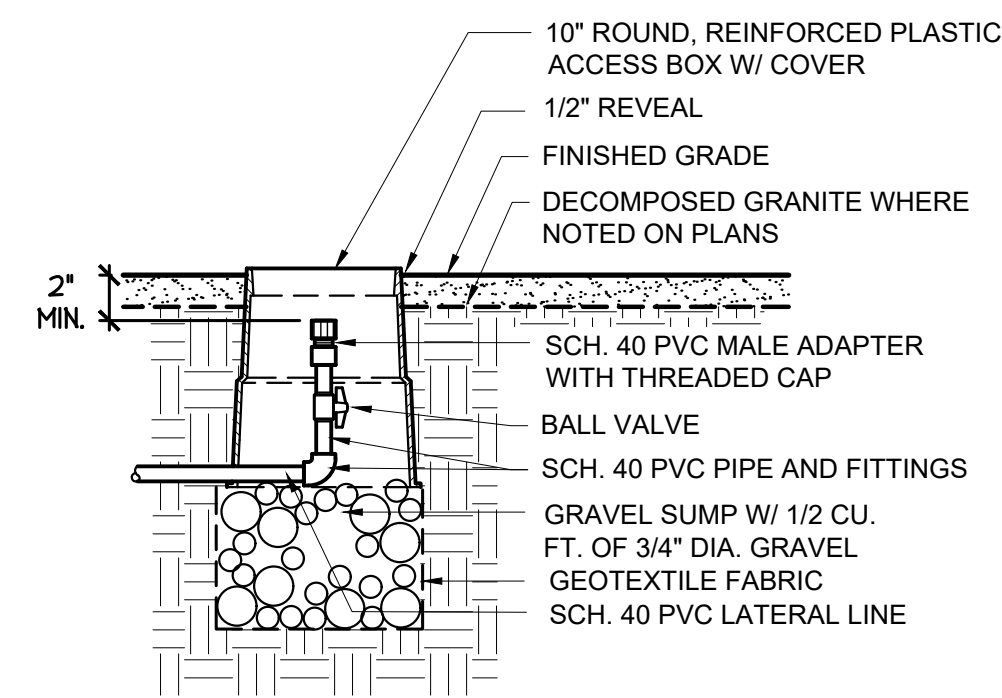


2 MASTER VALVE
SCALE: N.T.S.

- NOTE:**
PROVIDE PULSE DECODER, PULSE TRANSMITTER, PULSE TRANSMITTER POWER SUPPLY, AND SURGE PROTECTOR IN ACCORDANCE WITH FLOW SENSOR / CONTROL SYSTEM MANUFACTURER'S RECOMMENDATIONS.

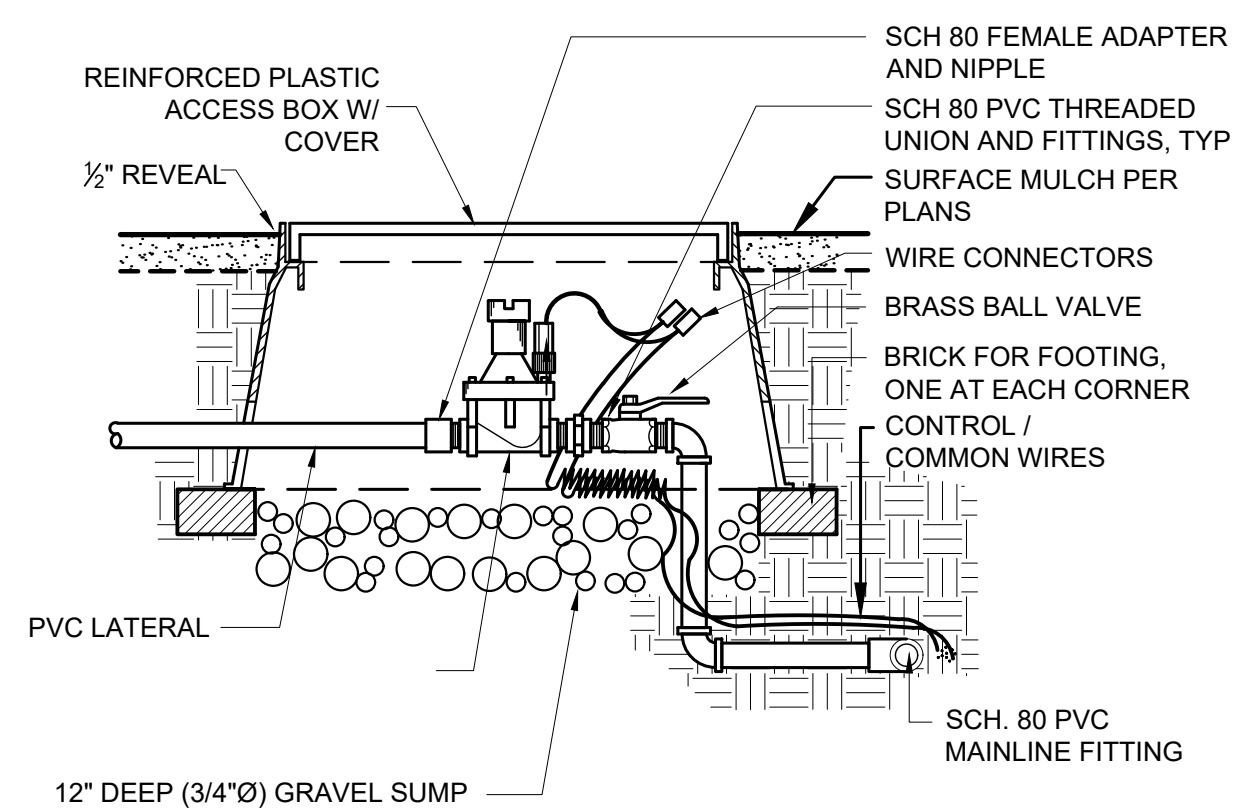


3 FLOW SENSOR ASSEMBLY
SCALE: N.T.S.



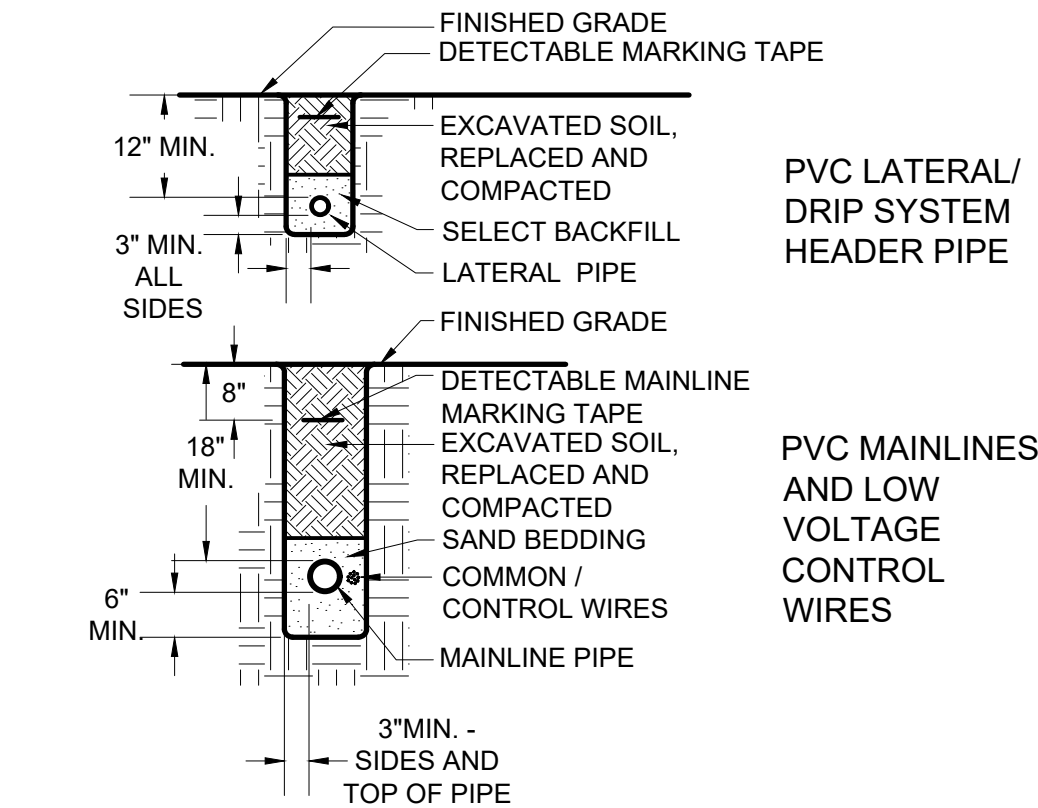
4 LATERAL FLUSHING END CAP
SCALE: N.T.S.

- NOTES:**
1. ALL WIRES TO BE INSTALLED PER LOCAL CODE. TAPE AND BUNDLE WIRES EVERY 7'. PROVIDE EXPANSION COIL AT EACH WIRE CONNECTION IN VALVE BOX (WRAP AROUND 1/2" Ø PIPE 15 TIMES).
 2. COMPACT SOIL AROUND VALVE BOX TO SAME DENSITY AS ADJACENT UNDISTURBED SOIL.
 3. ALL THREADED PVC JOINTS SHALL BE WRAPPED WITH TEFLON TAPE.

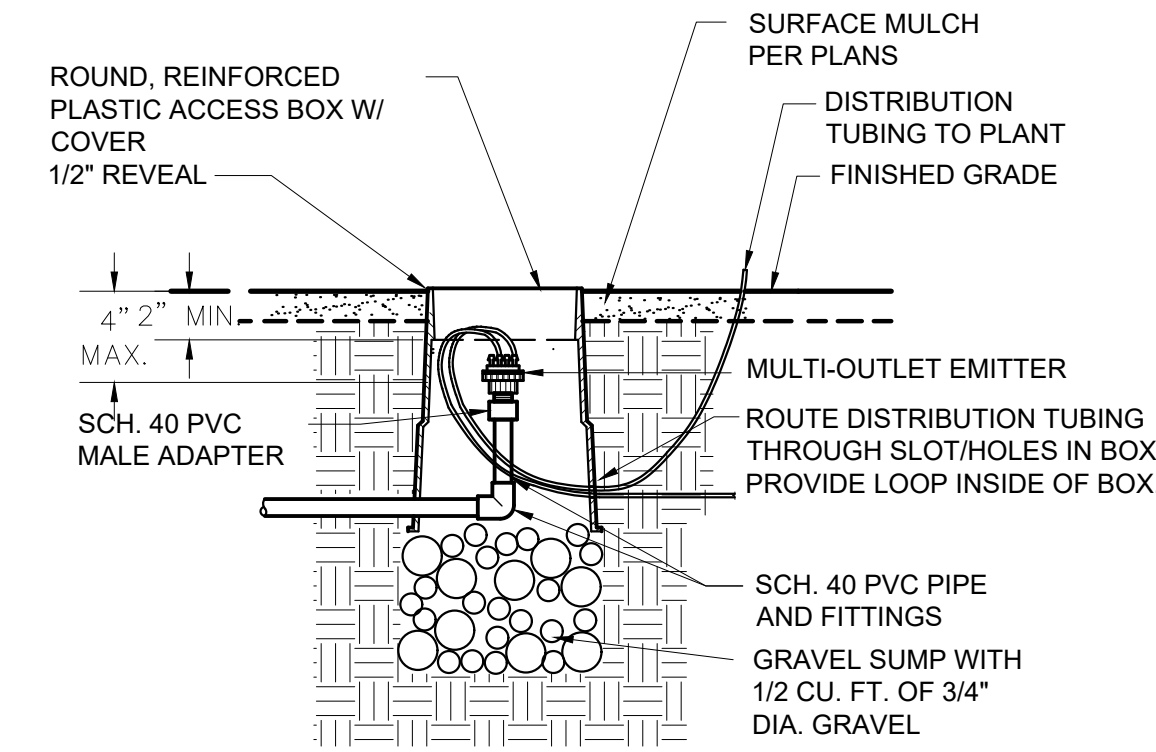


5 ELECTRIC REMOTE CONTROL VALVE
SCALE: N.T.S.

- NOTES:**
1. SELECT BACKFILL SHALL BE SAND OR SOIL FREE OF ROCKS AND STONES LARGER THAN 1/4" DIA.
 2. BACKFILL MATERIAL SHALL BE WATERED IN AND COMPACTED TO DENSITY OF ADJACENT UNDISTURBED SOIL.

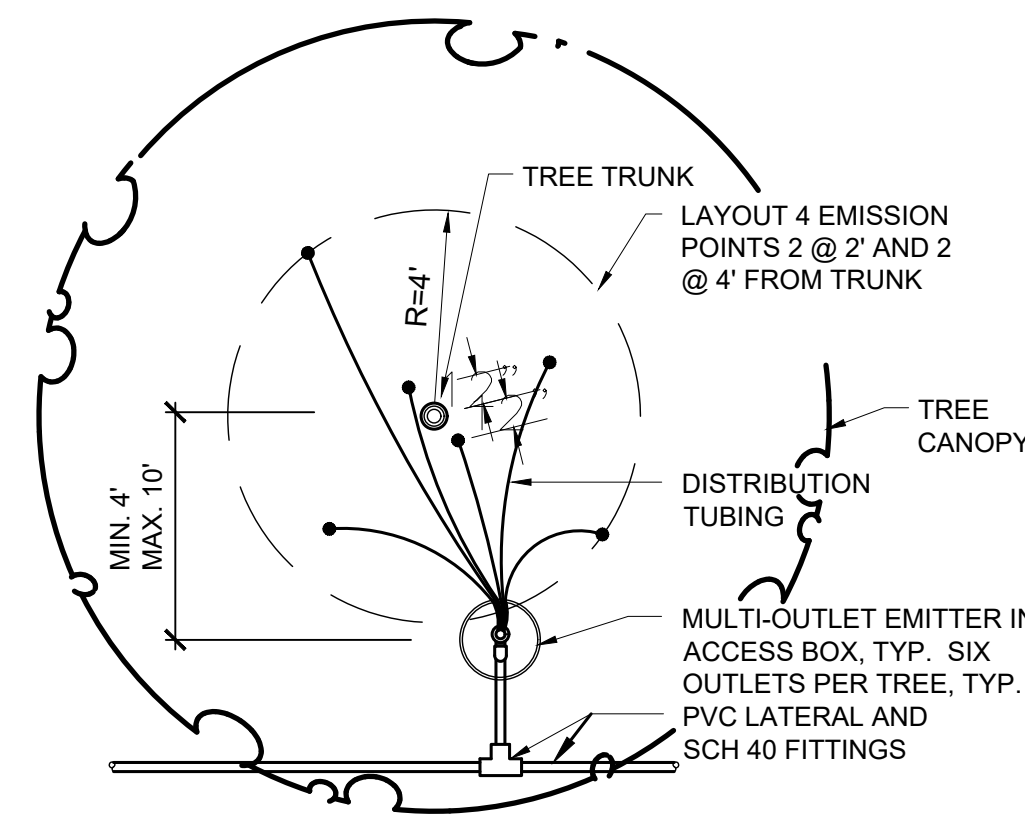


6 PIPE TRENCHING AND BACKFILL - MAINLINE, LATERALS, AND MARKING TAPE
SCALE: N.T.S.



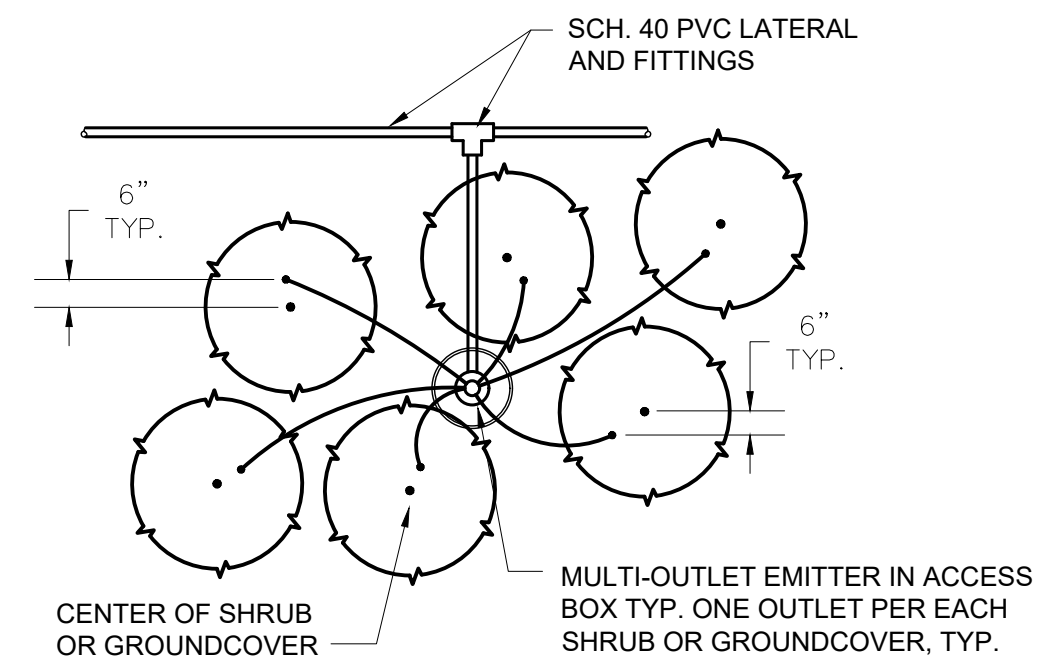
7 MULTI-OUTLET EMITTER
SCALE: N.T.S.

- NOTE:**
1. LENGTH OF DISTRIBUTION TUBING SHALL NOT EXCEED 12'-0". REFER TO LOCAL JURISDICTIONAL REQUIREMENTS; MAXIMUM ALLOWABLE LENGTH MAY BE LESS.
 2. LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE DISCHARGE POINT 2" ABOVE FINISHED GRADE.

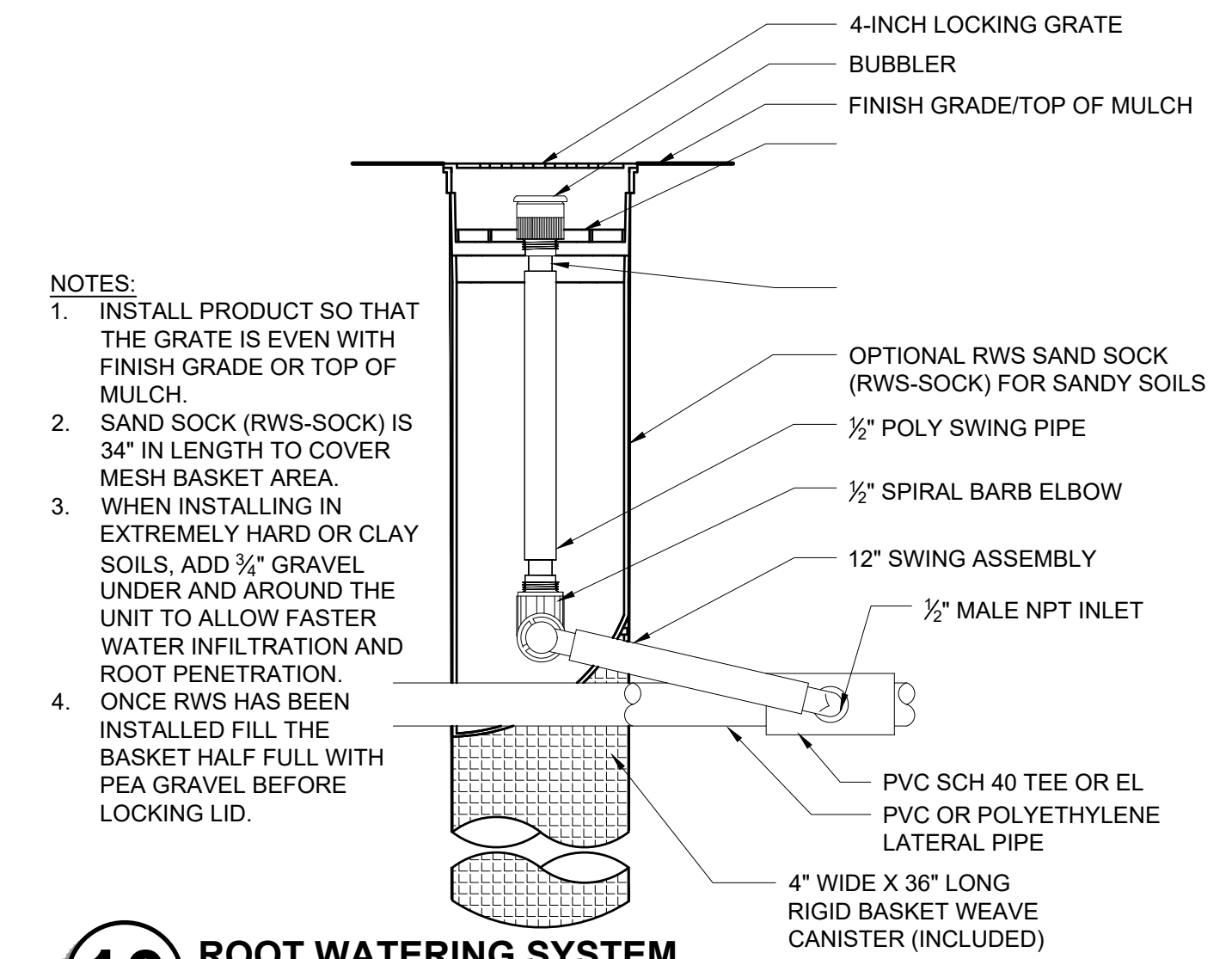


8 EMITTER DISTRIBUTION TUBING LAYOUT - TREES
SCALE: N.T.S.

- NOTES:**
1. LENGTH OF DISTRIBUTION TUBING SHALL NOT EXCEED 12'-0". REFER TO LOCAL JURISDICTIONAL REQUIREMENTS; MAXIMUM ALLOWABLE LENGTH MAY BE LESS.
 2. LAYOUT DISTRIBUTION TUBING AS SHOWN AND LOCATE DISCHARGE POINT 2" ABOVE FINISHED GRADE.

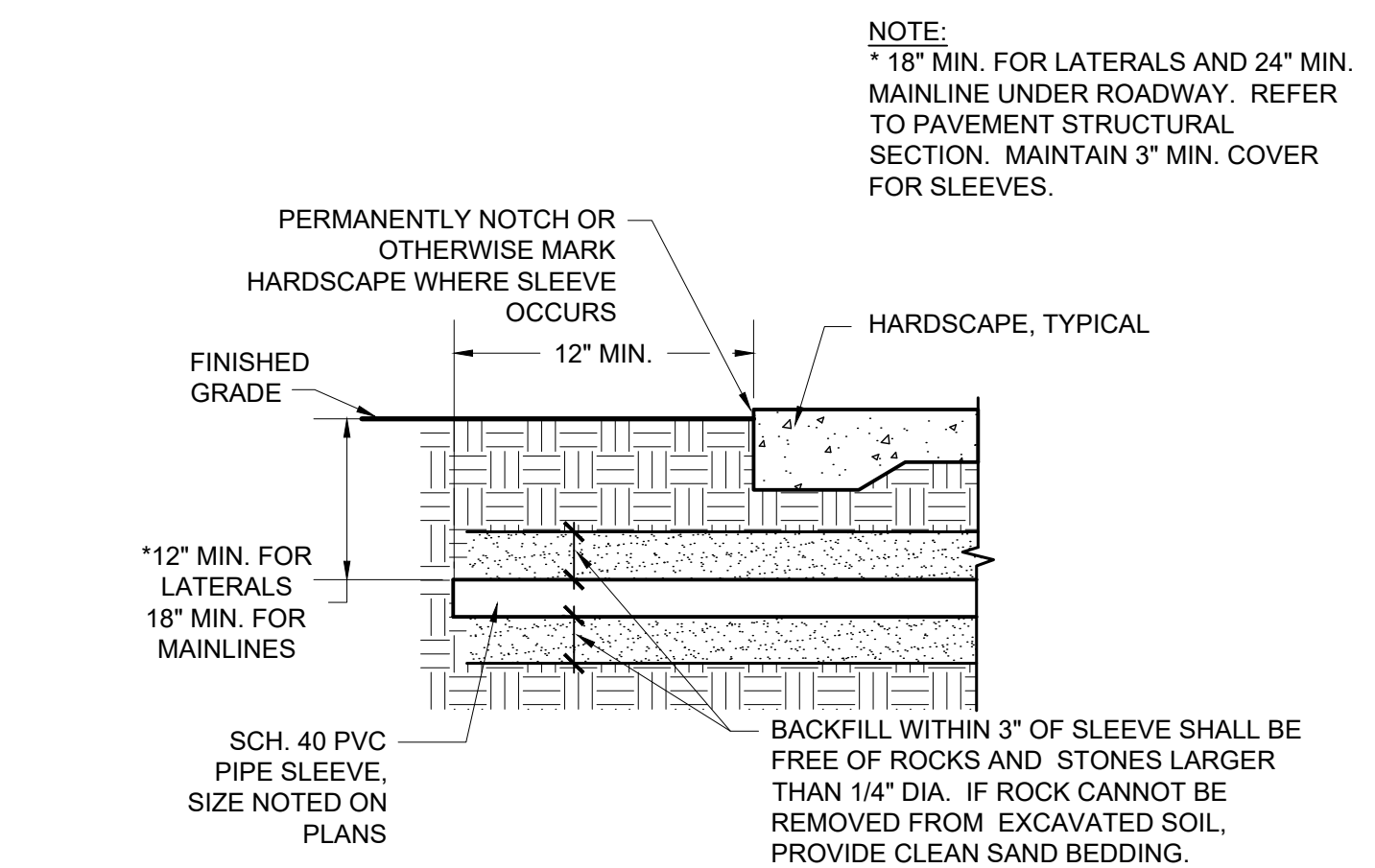


9 EMITTER DISTRIBUTION TUBING LAYOUT - SHRUBS
SCALE: N.T.S.



10 ROOT WATERING SYSTEM
SCALE: N.T.S.

- NOTES:**
1. INSTALL PRODUCT SO THAT THE GRATE IS EVEN WITH FINISH GRADE OR TOP OF MULCH.
 2. SAND SOCK (RWS-SOCK) IS 3/4" IN LENGTH TO COVER MESH BASKET AREA.
 3. WHEN INSTALLING IN EXTREMELY HARD OR CLAY SOILS, ADD 3/4" GRAVEL UNDER AND AROUND THE UNIT TO ALLOW FASTER WATER INFILTRATION AND ROOT PENETRATION.
 4. ONCE RWS HAS BEEN INSTALLED FILL THE BASKET HALF FULL WITH PEA GRAVEL BEFORE LOCKING LID.



11 MAINLINE AND LATERAL PIPE SLEWING
SCALE: N.T.S.

- NOTE:**
* 18" MIN. FOR LATERALS AND 24" MIN. MAINLINE UNDER ROADWAY. REFER TO PAVEMENT STRUCTURAL SECTION. MAINTAIN 3" MIN. COVER FOR SLEEVES.

- NOTE:**
PERMANENTLY NOTCH OR OTHERWISE MARK HARDSCAPE WHERE SLEEVE OCCURS.



DRAWN BY: J.L.W.
DESIGNED BY: ASD
CHECKED BY: ASD
SHEET DWG: IRDT_01
DRAWING HORIZ: 1" = 20'
SCALE(S) VERT: ##

Kimley»Horn
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7740 North 16th Street, Suite 300
Phoenix, Arizona 85020 (602) 944-5500

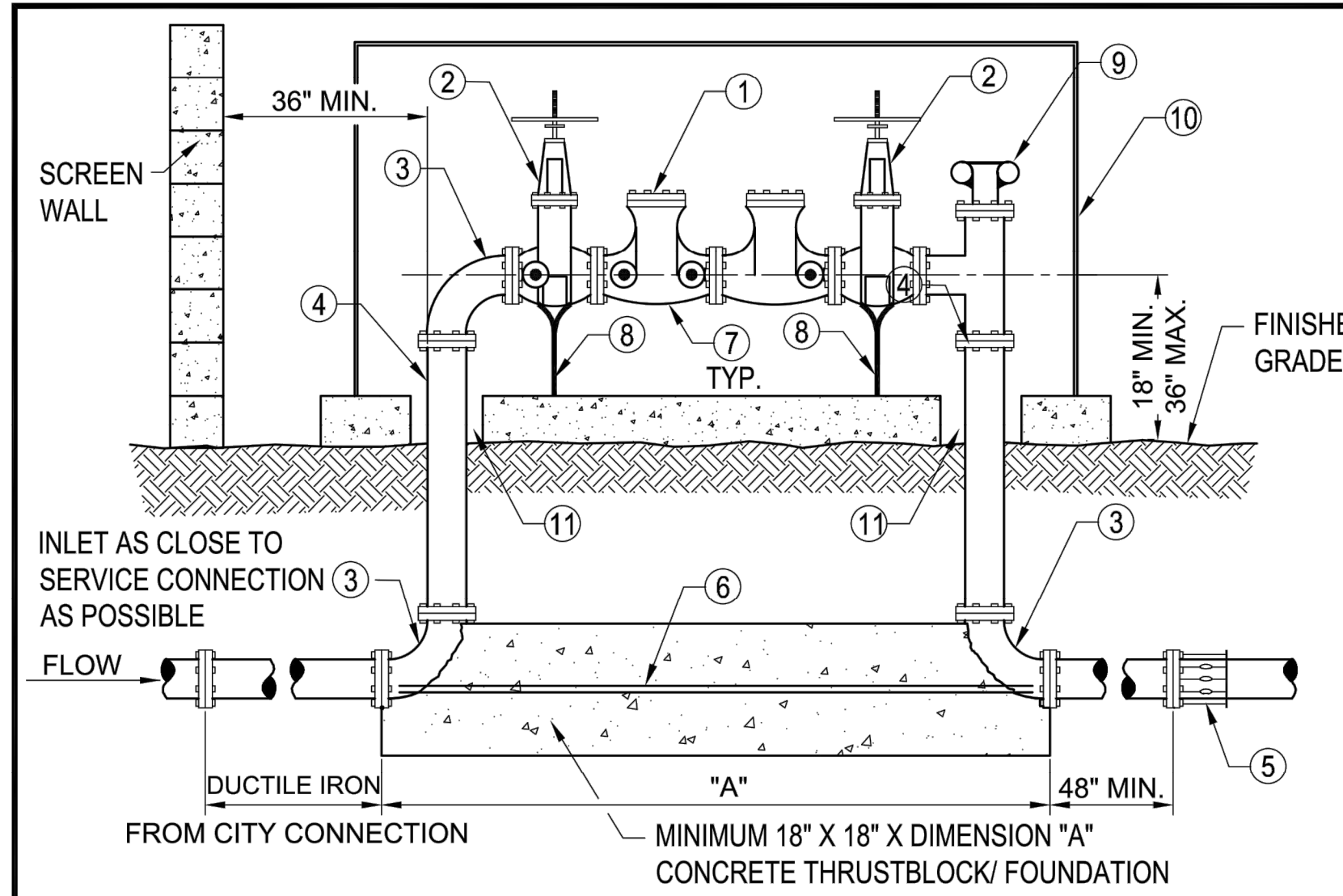
IRRIGATION DETAILS
107TH AVENUE & MCDOWELL ROAD INTERSECTION
PROJECT NUMBER: ST1224

PRELIMINARY
60%
NOT FOR CONSTRUCTION
ORIGINAL PLAN DATE: 10-5-2018
LATEST REVISION DATE: -
SHEET NUMBER: 84 OF 84
PROJECT NUMBER: ST1224



Plotted By: Rodriguez, David Sheet: Smt: McDowell Road Layout: IRDT_01 October 10, 2018 04:35:40pm K:\PHX - Roadways\191323121 - 107th Avenue and McDowell Road\Cadd\12-Sheets\Irrigation\191323121-IR-DTL5.dwg

Plotted By: Rodriguez, David - Sheet: Sct: McDowell Road - Layout: IRDT_02 - October 10, 2018 04:35:43pm K:\PHX-Roadway\191323121-107th Avenue and McDowell Road\Cadd\12-Sheets\Landscapes\191323121-IR-DTL.S.dwg



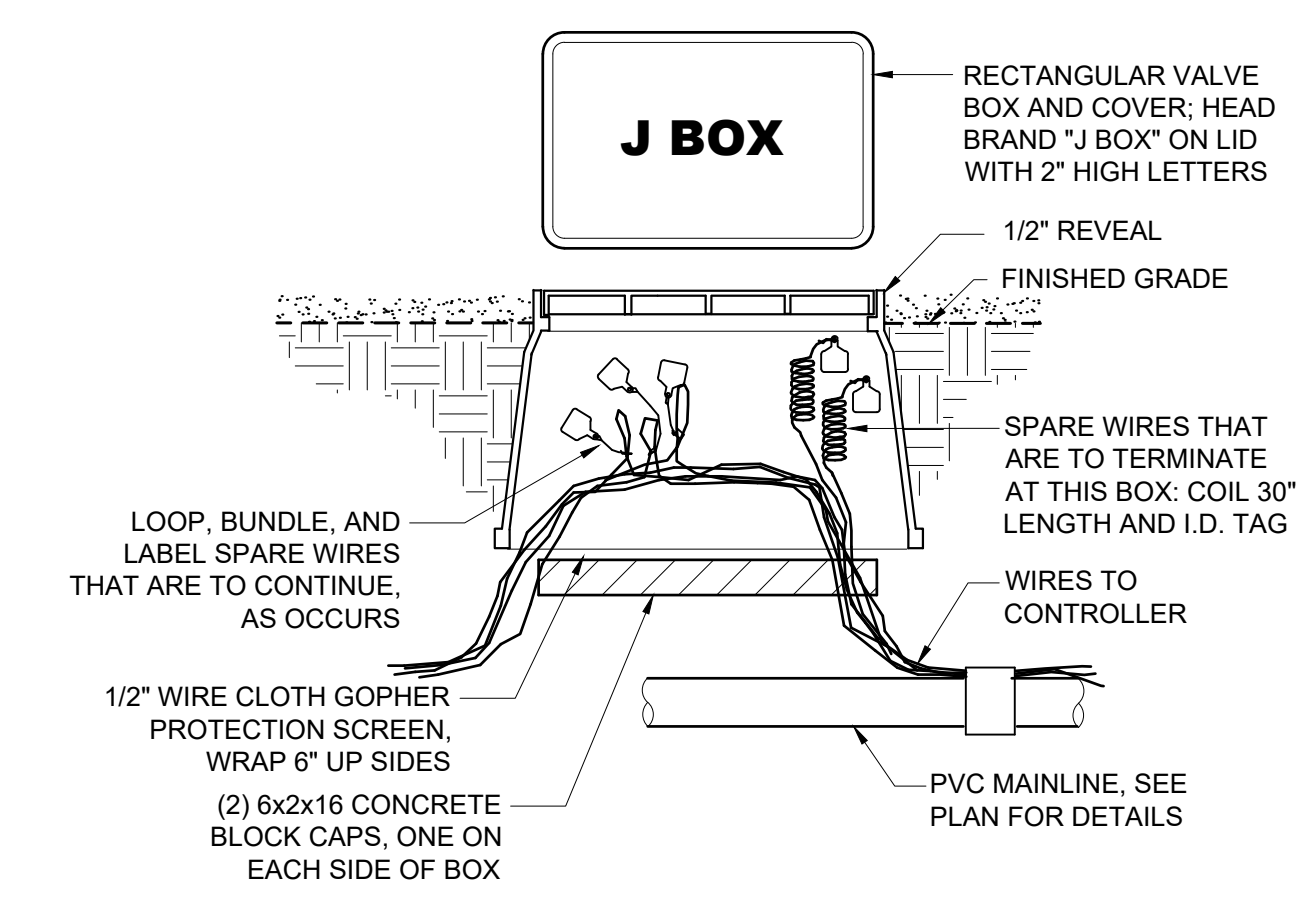
- LIST OF MATERIALS**
- ① APPROVED BACKFLOW PREVENTION ASSEMBLY. FOR COMBO (FIRE & DOMESTIC) OR CHEMICAL INJECTED LINES USE REDUCED PRESSURE BACKFLOW. FOR FIRE ONLY LINES USE DOUBLE CHECK VALVE. (USC & UL APPROVED).
 - ② RESILIENT SEATED O.S. & Y GATE VALVE.
 - ③ 90° ELL. FLANGED D.I.P. 4" THRU 12"
 - ④ PIPE SPOOL. FLANGED D.I.P. 4" THRU 12"
 - ⑤ FLANGED ADAPTER (WHEN REQUIRED)
 - ⑥ 3/4" ZINC COATED THREADED ROD, BOLT TO FLANGES AS SHOWN, TYPICAL BOTH SIDES
 - ⑦ TEST COCKS WITH BRASS PLUGS OR ADAPTERS WITH CAPS INSTALLED (4 REQUIRED)
 - ⑧ ADJUSTABLE INDUSTRIAL GRADE METAL PIPE SUPPORTS (PER CITY APPROVAL), AND HARDWARE, MOUNTED TO CONCRETE SLAB.
 - ⑨ FIRE DEPARTMENT CONNECTION CONSISTING OF TWO 2.5" FEMALE INLETS WITH NATIONAL STANDARD FIRE THREAD, BREAKAWAY COVERS, AND CHECK VALVE (DOUBLE CHECK ASSEMBLIES).
 - ⑩ INSTALL 6" THICK CONCRETE PAD, ENCLOSURE, AND HARDWARE. ENCLOSURE SHALL BE PER COA APPROVED PRODUCTS LIST. (AS REQUIRED)
 - ⑪ BLOCK OUT CONCRETE SLAB TO ACCOMMODATE PIPE AND FLANGE DIAMETER.

NOTES:

1. APPROVED BACKFLOW ASSEMBLIES MUST HAVE SEAL OF APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH. BACKFLOW ASSEMBLIES INSTALLED ON FIRE SUPPRESSION SYSTEMS MUST ALSO HAVE APPROVAL FROM UNDERWRITERS LABORATORIES AND/OR FACTORY MUTUAL RESEARCH CORPORATION.
2. BACKFLOW ASSEMBLIES MUST BE TESTED BY A CERTIFIED TESTER THAT IS RECOGNIZED BY THE CITY OF AVONDALE
3. BACKFLOW PREVENTERS SHALL BE PAINTED LIGHT TAN OR A COLOR TO MATCH THE BUILDING OR SCREEN WALL. FIRE DEPARTMENT CONNECTION SHALL BE PAINTED RED. DO NOT PAINT THE NAME PLATE OR ANY BRASS PARTS ON THE ASSEMBLY.
4. SCREENING WALL, GUARD POSTS (IF REQUIRED BY FIRE DEPARTMENT) AND VEGETATION SHALL MAINTAIN A MINIMUM 36 INCH CLEARANCE FROM THE ASSEMBLY.
5. FINISHED GRADE UNDERNEATH THE BACKFLOW PREVENTER SHALL BE AT 95% COMPACTION.
6. CALL CITY OF AVONDALE ENGINEERING DEPARTMENT A MINIMUM OF 24-HOURS IN ADVANCE FOR UNDERGROUND INSPECTION BEFORE BACK FILLING TRENCH.
7. TAMPER SWITCHES ON EACH VALVE TIED TO THE BUILDING FIRE ALARM SYSTEM SHALL BE IN ACCORDANCE WITH FIRE DEPARTMENT POLICY.
8. DETECTABLE MARKING TAPE TO BE APPROVED BY THE CITY OF AVONDALE FIRE DEPARTMENT TO BE PLACED ALONG THE FULL LENGTH OF THE FIRE LINE ON THE CUSTOMER SIDE FROM THE BACKFLOW/FIRE DEPARTMENT CONNECTION ASSEMBLY TO THE BUILDING IS REQUIRED.
9. IDENTIFICATION TAGS OR SIGNS IDENTIFYING THE OCCUPANCY OR OCCUPANCIES SERVED BY THE ASSEMBLY MAY BE REQUIRED AT THE DISCRETION OF THE FIRE DEPARTMENT.

DETAIL NO. A1325	Avondale STANDARD DETAIL	BACKFLOW PREVENTION ASSEMBLY 3 INCHES THRU 12 INCHES	APPROVED BY: <i>[Signature]</i> DATE: 8-24-16
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12 BACKFLOW PREVENTION ASSEMBLY
SCALE: N.T.S.



- NOTES**
1. FOR WIRE SIZES NO. 14, 12, AND 10, ALL CONNECTIONS IN VALVE BOXES ONLY.
 2. INSTALL SPEARS DS-100 DRI-SPLICE CONNECTORS WITH DS-300 SEALANT.
- STEP 1: SLIP BASE SOCKET OVER END OF WIRES. STRIP WIRES APPROX. 1" FROM ENDS - TWIST ENDS TOGETHER.
 - STEP 2: APPLY SEALER TO OUTSIDE OF SEALING PLUG - FILL CAVITY WITH SEALER. PUT CRIMP SLEEVE OVER WIRE ENDS - CRIMP SLEEVE AND CUT OFF EXCESS WIRE.
 - STEP 3: PULL BASE SOCKET OVER WIRE END AS FAR AS POSSIBLE. PUSH SEALING PLUG INTO BASE SOCKET. PUSH WIRES TO END OF BASE SOCKET TO ASSURE COMPLETE SEALING OF CONNECTION.
 - STEP 4: DRI-SPLICE TYPE WIRE CONNECTOR.

13 IRRIGATION WIRING JUNCTION BOX
SCALE: N.T.S.

14 IRRIGATION WIRE CONNECTION
SCALE: N.T.S.

DRAWN BY:	JLW
DESIGNED BY:	ASD
CHECKED BY:	ASD
SHEET DWG:	IRDT_02
DRAWING HORIZ:	1" = 20'
SCALE(S) VERT:	###

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IRRIGATION DETAILS
 107TH AVENUE & MCDOWELL ROAD INTERSECTION
 PROJECT NUMBER: ST1224

PRELIMINARY
60%
 NOT FOR CONSTRUCTION

ORIGINAL PLAN DATE
10-5-2018
 LATEST REVISION DATE
 - - -

SHEET NUMBER
85 OF 84
 PROJECT NUMBER
ST1224

