Emc2 Architects ■ Planners, PC

CHASSE BUILDING TEAM

Tempe School District No. 3

Adjacent Ways Estimate

Contract Number: **17-10PV-01**

TEMPE ELEMENTARY SCHOOL DISTRICT

WARD TRADITIONAL ACADEMY CLASSROOM ADDITION

1965 EAST HERMOSA DRIVE | TEMPE, AZ 85282

February 15, 2018

Exhibit A.1 - GMP Details

Ward Traditional Academy Classroom Addition

Adjacent Ways Estimate

Contract Number: **17-10PV-01**

February 15, 2018

DIV	DESCRIPTION	ADJACENT WAYS
1A	Project Requirements	1,263
1B	Survey & Layout	750
2A	Demolition	10,023
3A	Concrete	14,596
31A	Earthwork	32,765
	General Conditions	6,718
	Contractor Contingency	1,986
	Insurance, Bldr Risk, Bonds	1,986
	JOC Fee 1%	794
	Contractor Fee	4,369
	Gross Receipts Tax	4,186
	TOTAL CONSTRUCTION COSTS:	**79,436**

Exhibit A.1 - GMP Details

Ward Traditional Academy Classroom Addition

Adjacent Ways Estimate

Contract Number: **17-10PV-01**

February 15, 2018

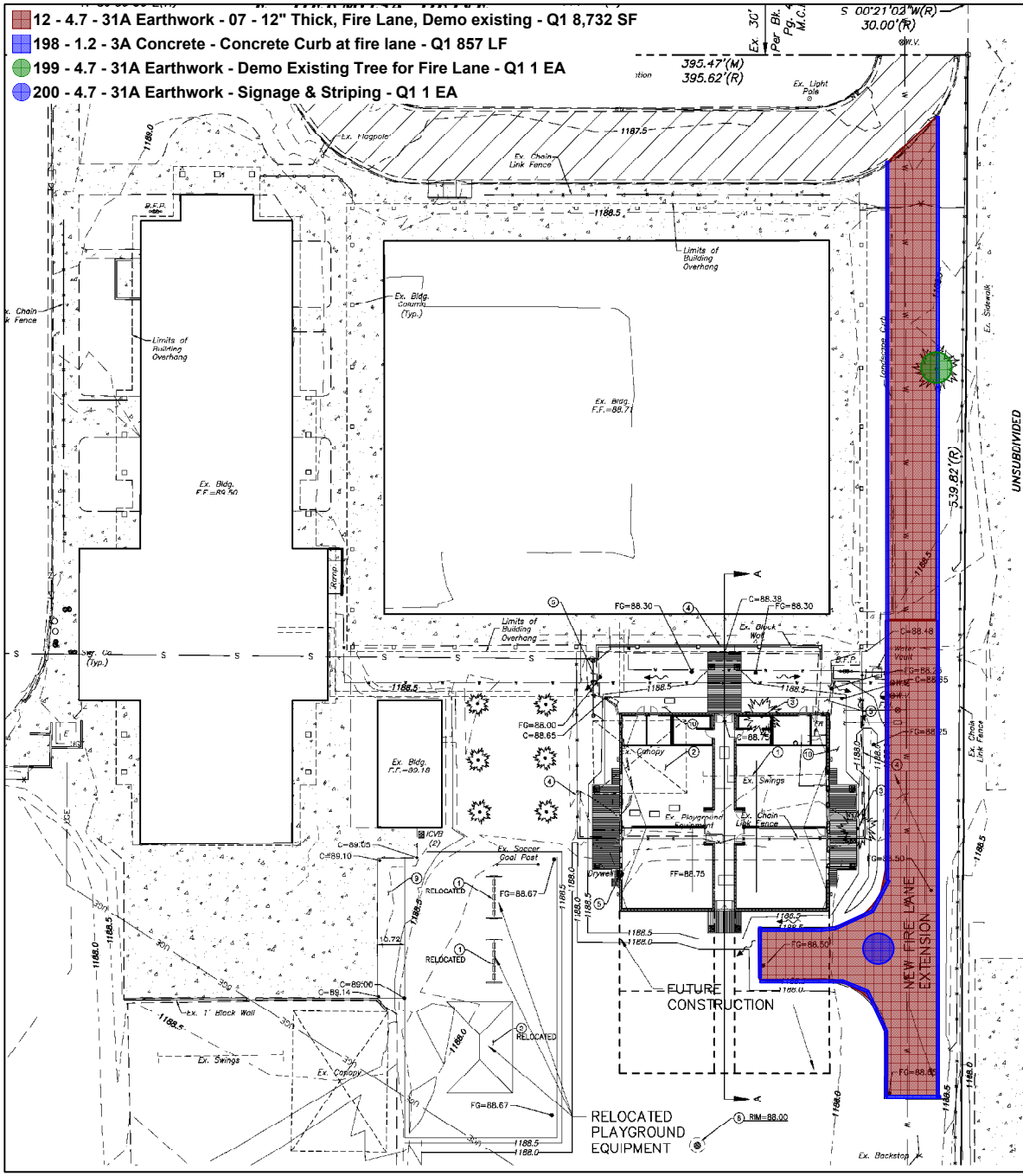
DIV	DESCRIPTION	TOTAL QUANTITY	UNIT	TOTAL COST	DIVISION SUM
1B	Survey & Layout				
	Building Survey				
	General Layout	1	LS	750	
	Total Survey & Layout				**750**
2A	Demolition				
	Site Demolition				
	Demo Asphalt	8,732	SF	7,394	
	Demo Concrete Curb	439	LF	1,317	
	Demo Large Trees and Fencing	1	EA	1,312	
	Total Demolition				**10,023**
3A	Concrete				
	Site Concrete				
	Curb & Gutter	848	LF	14,596	
	Total Concrete				**14,596**
31A	Earthwork				
	Grading				
	Mobilization, Mass Grading	1	LS	3,807	
	Fine Grading	8,732	SF	2,139	
	Fire Lane, 12"ABC	970	SY	24,882	
	Striping & Signage				
	Striping & Signage as required	1	LS	834	
	Fire Lane, Curb Paint	848	LF	666	
	Misc Earthwork				
	Construction Water	970	SY	437	
	Total Earthwork				**32,765**

12 - 4.7 - 31A Earthwork - 07 - 12" Thick, Fire Lane, Demo existing - Q1 8,732 SF

198 - 1.2 - 3A Concrete - Concrete Curb at fire lane - Q1 857 LF

199 - 4.7 - 31A Earthwork - Demo Existing Tree for Fire Lane - Q1 1 EA

200 - 4.7 - 31A Earthwork - Signage & Striping - Q1 1 EA

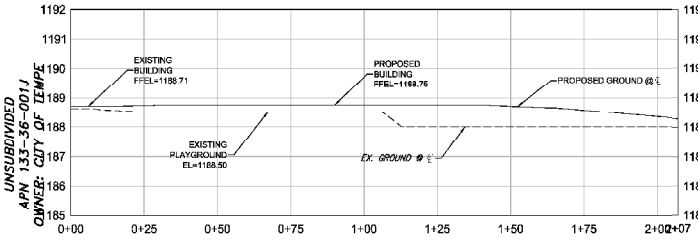


CONSTRUCTION NOTES

		QTY	UNIT
1	REMOVE & RELOCATE EXISTING SWING SET AND PLAYGROUND EQUIPMENT.		
2	REMOVE & RELOCATE EXISTING CANOPY STRUCTURE.		
3	REMOVE EXISTING TREE.	2	EA
4	REMOVE & SALVAGE EXISTING FENCE.	260	LF
5	REMOVE/ABANDON EXISTING DRYWELL PER ADWR REQUIREMENTS.	1	EA
6	REMOVE EXISTING SIDEWALK.	100	SF
7	CONSTRUCT 95% MIN COMPACTED GRAVEL (ABC) DRIVE. 12" THICK, GEOTECH TO FIELD TEST FOR ADEQUATE FIRE TRUCK LOADING CAPACITY.	557	SY
8	CONSTRUCT NEW SINGLE CHAMBER DRYWELL PER DTL THIS SHEET.	1	EA
9	CONSTRUCT 6" THICK PCC W/ WWF.	65	SY
10	CONSTRUCT CONCRETE SIDEWALK PER MAG DTL 230	205	SY

0 20' 40'
SCALE: 1" = 20'

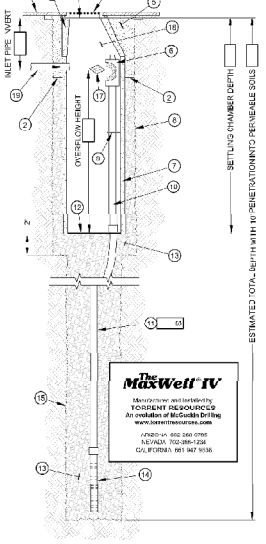
HORIZ. SCALE: 1" = 20'
VERT. SCALE: 1" = 2'



The MaxWell® IV Drainage System Detail And Specifications

NOTES

1. **MANHOLE CONE** - MODIFIED FLAT BOTTOM.
2. **MOISTURE MEMBRANE** - 8 MIL PLASTIC, APPLIED ONLY WHEN NATIVE MATERIAL IS USED FOR BACKFILL. PLACE MEMBRANE SECURELY AGAINST ECCENTRIC CONE AND HOLE SIDEWALL.
3. **BOLTED RING & GRATE** - DIAMETER AS SHOWN. CLEAN CAST IRON WITH WORDING **"STORM WATER ONLY"** IN RAISED LETTERS. **BOLTED IN 2 LOCATIONS** AND SECURED TO CONE WITH MORTAR. RIM ELEVATION ±0.02' OF PLANS.
4. **GRADED BASIN OR PAVING** (BY OTHERS).
5. **STABILIZED BACKFILL** - 1 SACK SLURRY.
6. **PUREFLO® DEBRIS SHIELD** - ROLLED 18 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. SWG FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. **FUSION BONDED EPOXY COATED.**
7. **PRE-CAST LINER** - 4,000 PSI CONCRETE 48" ID. X 54" OD., **CENTER IN HOLE** AND AS SHOWN SECTIONS TO **MAXIMIZE BEARING SURFACE**
8. MIN. 6'-0" DRILLED SHAFT
9. **SUPPORT BRACKET** - FORMED 12 GA. STEEL. **FUSION BONDED EPOXY COATED.**
10. **OVERFLOW PIPE** - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
11. **DRAINAGE PIPE** - ADS HIGHWAY GRADE WITH TR -A COUPLER, SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. **BASE SEAL** - GEOTEXTILE O/R CONCRETE SLURRY.
13. **ROCK** - WASHED, SIZED BETWEEN 3/8" AND 1-1/2" TO ***BEST COMPLEMENT SOIL CONDITIONS.***
14. **FLOFAST® DRAINAGE SCREEN** - SCH. 40 PVC 0.120" SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. 120" OVERALL LENGTH WITH TH-48 COUPLER.
15. **MIN. 6'-0 SHAFT** - DRILLED TO **MAINTAIN PERMEABILITY** OF DRAINAGE SOILS.
16. **FABRIC SEAL** - U.V. RESISTANT GEOTEXTILE - **TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.**
17. **ABSORBENT** - HYDROPHOBIC PETROCHEMICAL SPONGE MIN. 126 OZ. CAPACITY
18. **FREEBOARD DEPTH** VARIES WITH INLET PIPE ELEVATION. INCREASE SETTLING CHAMBER DEPTH AS NEEDED TO MAINTAIN ALL INLET PIPE ELEVATIONS ABOVE OVERFLOW PIPE INLET.
19. **INLET PIPE** (BY OTHERS).



REVISIONS:

GRADING PLAN

WARD TRADITIONAL ACADEMY CLASSROOM ADDITION

1965 E. BERNEDA DRIVE TEMPE, AZ 85283

Standage & Associates, Ltd.
Consulting Engineers
409 S. El Dorado
Mesa, Arizona 85202
(480) 892-8080

SHEET: 3 OF: 4
PROJECT: 171026
SCALE: 1"=20'
DRAWN: GBB/JLW