CHEROKEE ELEMENTARY SCHOOL

IMPROVEMENT PLANS

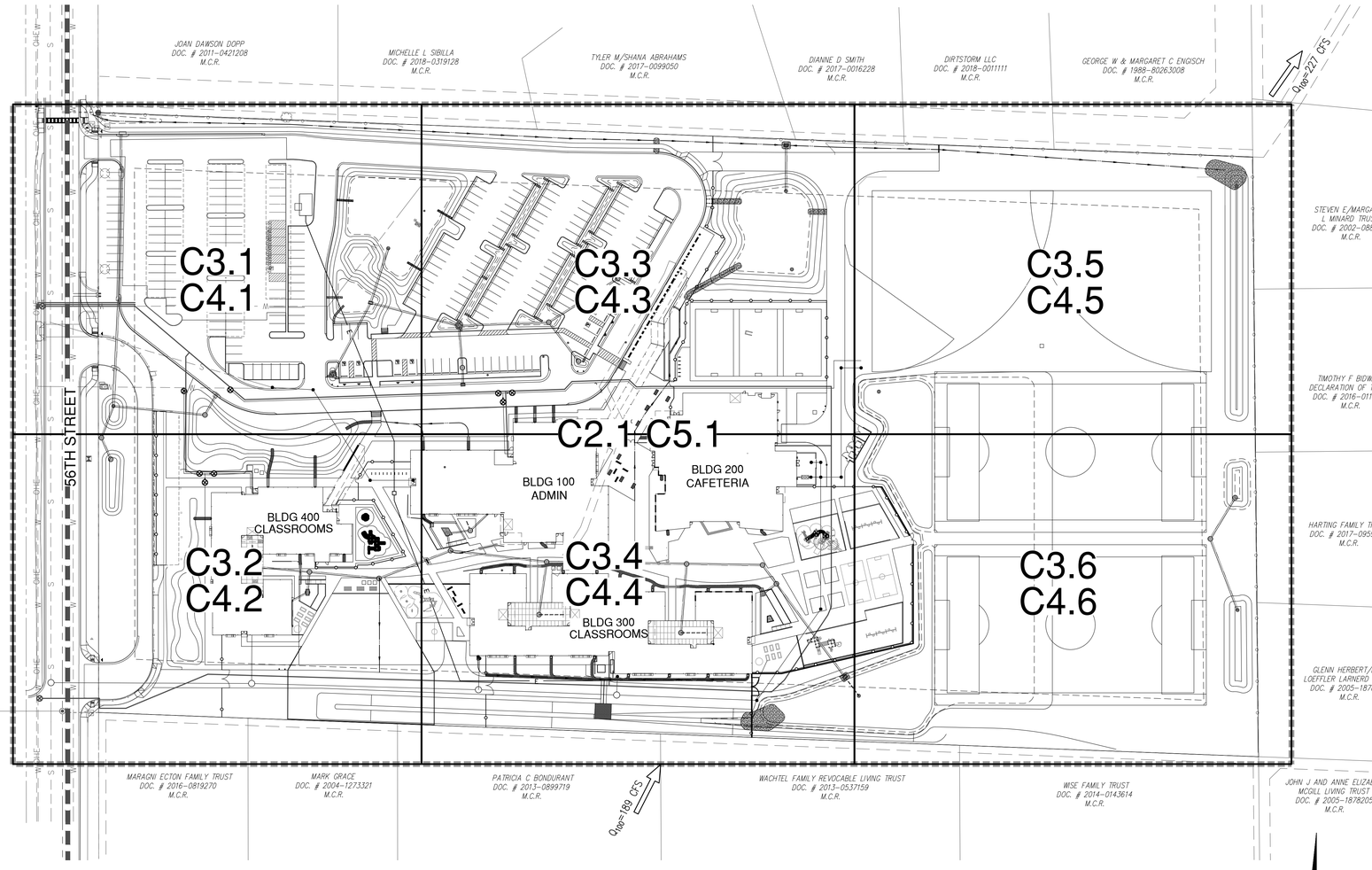
PARADISE VALLEY, ARIZONA

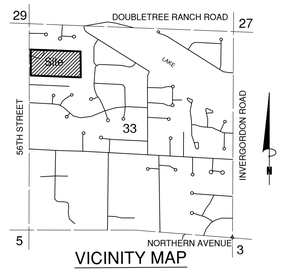
A PORTION OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 3 NORTH, RANGE 4 EAST
OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

LEGEND

- PHASE LINE
- CENTER LINE
- EASEMENT
- RIGHT-OF-WAY
- SURVEY MARKER
- 8"W — WATER LINE
- FIRE HYDRANT
- WATER VALVE
- WATER METER BOX
- 8"S — SEWER LINE
- SEWER MANHOLE
- STORM DRAIN PIPE
- FLOW LINE
- VERTICAL CURB & GUTTER
- (1200) — EXISTING CONTOUR ELEVATION
- 1200 — PROPOSED CONTOUR ELEVATION
- EG=*(21.20) EXISTING AND PROPOSED GRADE
- —W— EXISTING WATER LINE
- —S— EXISTING SEWER LINE
- —G— EXISTING GAS LINE
- —UGE— EXISTING UNDER GROUND ELECTRIC
- —OHE— EXISTING OVER HEAD ELECTRIC
- —UGT— EXISTING UNDER GROUND TELECOMMUNICATIONS

R/W	RIGHT-OF-WAY
PUE	PUBLIC UTILITIES EASEMENT
CL	CENTER LINE
B/C	BACK OF CURB
TC	TOP OF CURB
G	GUTTER
EOP	EDGE OF PAVEMENT
INV	INVERT ELEVATION
EX	EXISTING
FF	FINISHED FLOOR ELEVATION
FP	FINISHED PAD ELEVATION
OHE	OVER HEAD ELECTRIC
UGE	UNDERGROUND ELECTRIC
TELE	TELECOMMUNICATIONS LINE
FG	FINISHED GRADE
EG	EXISTING GRADE
UGT	UNDER GROUND TELECOMMUNICATIONS
TSW	TOP OF STEM WALL





VICINITY MAP
N.T.S.

OWNER

SCOTTSDALE UNIFIED SCHOOL DISTRICT.
9288 E SAN SALVADOR DRIVE
SCOTTSDALE, ARIZONA 85258
CONTACT: DENISS ROEHLER
PHONE: 480.484.8503

ARCHITECT

ORCUTT WINSLOW
2929 N CENTRAL AVENIE
PHOENIX, ARIZONA 85012
PHONE: 602.257.1764
CONTACT:
EMAIL:

CIVIL ENGINEER

BOWMAN CONSULTING
1295 W WASHINGTON ST
SUITE 108
TEMPE, AZ 85281
PHONE: 480.629.8830
ENGINEER: DAVID MALDONADO-CAMOU
E-MAIL: dmaldonado@bowmanconsulting.com

BENCHMARK

BRASS IN HANDHOLE FLUSH AT THE INTERSECTION OF DOUBLETREE RANCH ROAD AND 56th STREET, TOWN OF PARADISE VALLEY DATUM
ELEVATION = 1339.448 (NAVD88)

BASIS OF BEARING

NORTH 00 DEGREES 02 MINUTES 40 SECONDS EAST ALONG THE WEST LINE OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA, ACCORDING TO PLAT OF DOUBLE TREE RANCHOS AS RECORDED IN BOOK 120 OF MAPS, PAGE 33, M.C.R.

LEGAL DESCRIPTION

THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY ARIZONA;

EXCEPT THE WEST 40 FEET THEREOF AS CONVEYED TO MARICOPA COUNTY BY GRANT DEED RECORDED IN DOCKET 1269, PAGE 73.

APN: 168-43-003

PROJECT DESCRIPTION

CHEROKEE ELEMENTARY SCHOOL IS A 19.43-ACRE PARCEL OF LAND LOCATED AT 8801 NORTH 56TH STREET IN PARADISE VALLEY, ARIZONA. THE SITE IS ZONED R-43S

SITE DATA

ADDRESS: 8801 NORTH 56TH STREET IN PARADISE VALLEY, AZ 85253.
PARCEL NUMBER: 168-43-003
ZONING CLASSIFICATION: R-43S (PUBLIC SCHOOL)
LOT AREA: 846,420.82sf 19.43Ac
CONSTRUCTION YEAR: 1970

FEMA FLOOD ZONE INFORMATION

COMMUNITY NUMBER	PANEL # PANEL DATE	SUFFIX	DATE OF FIRM (INDEX DATE)	FIRM ZONE	BASE FLOOD ELEV. (IN AO ZONE, USE DEPTH)
040049	04013C1755 10/16/2013	L	01/24/2019	X	N/A

DRAINAGE STATEMENT

1. THE ULTIMATE STORM WATER OUTFALL IS LOCATED IN THE NORTHEAST CORNER OF THE LOT WITH AN ELEVATION OF 1337.00
2. THE PROPOSED DEVELOPMENT DOES NOT IMPACT DRAINAGE CONDITIONS OF THE ADJOINING LOTS.
3. THE SITE CURRENTLY PROVIDES MINIMAL RETENTION. ALL ONSITE STORMWATER RUNOFF UP TO THE 100-YEAR 2-HOUR STORM WILL BE RETAINED IN PROPOSED ONSITE RETENTION BASINS.
4. FIRST FLUSH RETENTION IS PROVIDED FOR AREAS THAT CURRENTLY DRAIN TO 56TH STREET.
5. ALL OFFSITE STORMWATER RUNOFF WILL BE ROUTED THROUGH THE SITE VIA A PROPOSED CHANNEL AND DISCHARGE AT THE SITE OUTFALL, FOLLOWING THE PRE-DEVELOPMENT DRAINAGE PATTERNS.
6. THE LOWEST FINISH FLOOR ELEVATION OF 1343.83, IS A MINIMUM OF 1' ABOVE THE ADJACENT 100 YEAR WATER SURFACE AND ELEVATION

FINISH FLOOR CERTIFICATION

I HEREBY CERTIFY THAT THE FINISH FLOOR ELEVATION OF 1343.83 IS 1 FOOT ABOVE THE 100 YEAR, 2 HOUR STORM EVENT.

REGISTERED ENGINEER — DATE 01.05.20

APPROVAL

THIS SET OF PLANS HAS BEEN REVIEWED FOR COMPLIANCE WITH TOWN OF PARADISE VALLEY REQUIREMENTS PRIOR TO ISSUANCE OF PERMIT. THE TOWN NEITHER ACCEPTS NOR ASSUMES ANY LIABILITY FOR ERRORS OR OMISSIONS. THIS COMPLIANCE APPROVAL SHALL NOT PREVENT THE TOWN ENGINEER FROM REQUIRING CORRECTIONS OF ERRORS OR OMISSIONS IN THE PLANS TO BE FOUND IN VIOLATION OF LAWS OR ORDINANCES.

TOWN OF PARADISE VALLEY — DATE

AS-BUILT CERTIFICATION

I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER/LAND SURVEYOR — DATE

REGISTRATION NO.

Call at least two full working days before you begin excavation.
ARIZONA 811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

NOTE:

ALL NATIVE PLANTS IMPACTED BY CONSTRUCTION SHALL BE RELOCATED ON SITE. SEE LANDSCAPE PLANS AND NATIVE PLANT INVENTORY & SALVAGE.

MARICOPA COUNTY AIR QUALITY DEPARTMENT DUST CONTROL PERMIT NUMBER

ISSUED TO:
PERMIT NUMBER:
ISSUE DATE:
EXPIRATION DATE:

MCESD APPROVAL

MARICOPA COUNTY
ENVIRONMENTAL SERVICES DEPARTMENT
WWR-19-00661
DATE

SHEET INDEX

SHEET #	SHEET ID	SHEET TITLE
01	C1.1	COVER SHEET
02	C1.2	GENERAL NOTES AND DETAILS SHEET
03	C1.3	GENERAL DETAILS SHEET
04	C2.1	DEMOLITION PLAN
05-10	C3.1-C3.6	PAVING PLAN
11	C3.7	STORM DRAIN PROFILES
12-17	C4.1-C4.6	GRADING AND DRAINAGE PLAN
18	C4.7	GRADING SECTIONS SHEET
19	C4.8	GRADING DETAILS SHEET
20	C5.1	UTILITY PLAN
21	C5.2	SEWER PROFILES SHEET

EARTHWORK

CUT= 14,544 cu. yd.
FILL= 13,089 cu. yd.

NOTE: ENGINEER'S ESTIMATED EARTHWORK QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. CONTRACTOR SHALL PERFORM HIS/HER OWN QUANTITY TAKEOFF FOR BIDDING PURPOSES.

KEY MAP
N.T.S.

RETENTION CALCULATIONS

BASIN ID	DRAINAGE AREA (AC)	WEIGHTED RUNOFF COEFFICIENT	RAINFALL DEPTH (FT)	VOLUME REQUIRED (AC-FT)	VOLUME PROVIDED (AC-FT)	DESIGN STORM
A	1.71	0.80	0.0417	0.06 AC-FT	0.07 AC-FT	FIRST FLUSH
B	1.42	0.77	0.185	0.20 AC-FT	0.26 AC-FT	100YR 2HR
C	0.42	0.64	0.185	0.05 AC-FT	0.06 AC-FT	100YR 2HR
D	6.67	0.57	0.185	0.70 AC-FT	0.79 AC-FT	100YR 2HR
E	1.10	0.31	0.185	0.06 AC-FT	0.09 AC-FT	100YR 2HR
F	0.57	0.31	0.185	0.03 AC-FT	0.04 AC-FT	100YR 2HR
G	2.28	0.63	0.185	0.33 AC-FT	0.78 AC-FT	100YR 2HR
H	2.21	0.81	0.185	0.34 AC-FT	0.56 AC-FT	100YR 2HR
I	2.94	0.31	0.185	0.17 AC-FT	0.17 AC-FT	100YR 2HR

THIS SET OF CONSTRUCTION PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.

UTILITY COMPANY	COMPANY CONTACT	DATE SUBMITTED
SOUTHWEST GAS CORPORATION	HOPE OLGVIN – 480.730.3845	09.30.19
COX COMMUNICATIONS	KEN DEGRAFFENREID – 623.328.3423	09.30.19
ARIZONA PUBLIC SERVICE	CYNTHIA KEE – 602.371.7667	09.30.19
CENTURY LINK	ESTHER MEDINA – 480.768.4474	09.30.19
CITY OF PHOENIX WATER		09.30.19

CONTRACTOR SHALL COORDINATE WORK WITHIN RIGHT-OF-WAY WITH CITY OF PHOENIX 16" WATER MAIN PROJECT

orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
oneil.t@owp.com
602.257.1764 t
602.257.9029 f
www.owp.com

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Bowman CONSULTING
Bowman Consulting Group, Ltd.
1295 West Washington, Suite 108
Tempe, Arizona 85281
Phone (480) 629-8830
www.BowmanConsulting.com
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Scottsdale Unified School District
Cherokee Elementary School Replacement
8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
Dennis Roehler
9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

PROJECT NO.	DATE OF ISSUE
050641-01-001	10.10.19

REVISION NO.	DATE
1	12.10.19
10	03.25.20
12	05.15.20
14	07.15.20
15	10.09.20
17	01.12.21

PROJECT TEAM	DRAWN BY
BOWMAN	LGR

PROJECT PHASE
PERMIT SET

SHEET CONTENTS
COVER SHEET

SHEET NO.
C1.1

SHT 01 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C1.1-COV.DWG 2/28/2020 11:18 AM

BOWMAN GENERAL NOTES

1. THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ALL QUESTIONS REGARDING THESE PLANS SHALL BE PRESENTED TO THE ENGINEER. ANYONE WHO TAKES UPON THEMSELVES THE INTERPRETATION OF THE DRAWINGS OR MAKES REVISIONS TO THE SAME WITHOUT CONFERRING WITH THE DESIGN ENGINEER SHALL BE RESPONSIBLE FOR THE CONSEQUENCES THEREOF.
2. THE ESTIMATED QUANTITIES SHOWN ARE FOR INFORMATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COMPLETENESS AND ACCURACY OF A DETAILED ESTIMATE BASED ON THESE PLANS, CURRENT CODES, AND SITE VISITATION.
3. ALL EARTHWORK CONSTRUCTION SHALL CONFORM TO THE LATEST MARICOPA ASSOCIATION OF GOVERNMENTS STANDARD DETAILS AND/OR SPECIFICATIONS INCLUDING ANY SUPPLEMENTS THERETO, AND ALL ADDENDA. THE CONTRACTOR IS TO FOLLOW THE RECOMMENDATION OF THE PROJECT SOIL INVESTIGATION REPORT AND LETTER.
4. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY THEMSELVE AS TO THE ACTUAL CONDITIONS, REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY IN QUANTITIES. NO CLAIMS SHALL BE MADE AGAINST THE OWNER/DEVELOPER OR ENGINEER FOR ANY EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
5. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, PROCEDURES OR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
6. THE ENGINEER SHALL NOT BE RESPONSIBLE FOR COORDINATING THE RELOCATION OF UTILITIES SUCH AS POLES, ETC.
7. THE CONTRACTOR IS TO VERIFY THE LOCATION, ELEVATION, CONDITION, AND PAVEMENT CROSS-SLOPE OF ALL EXISTING SURFACES AT POINTS OF TIE-IN AND MATCHING, PRIOR TO COMMENCEMENT OF GRADING, PAVING, CURB AND GUTTER OR OTHER SURFACE CONSTRUCTION. SHOULD EXISTING LOCATIONS, ELEVATIONS, CONDITION, OR PAVEMENT CROSS-SLOPE DIFFER FROM THAT SHOWN ON THESE PLANS, RESULTING IN THE DESIGN INTENT REFLECTED ON THE PLANS NOT ABLE TO BE CONSTRUCTED, THE CONTRACTOR SHALL NOTIFY THE OWNER'S AGENT IMMEDIATELY FOR DIRECTION ON HOW TO PROCEED PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE CONTRACTOR ACCEPTS RESPONSIBILITY FOR ALL COSTS ASSOCIATED WITH CORRECTIVE ACTION IF THESE PROCEDURES ARE NOT FOLLOWED.
8. EXISTING UTILITIES SHOWN ON THESE PLANS HAVE BEEN LOCATED ACCORDING TO INFORMATION PROVIDED BY THE AGENCY OPERATING EACH UTILITY. LOCATIONS SHOWN ARE APPROXIMATE ONLY, AND SHOULD BE CONSIDERED APPROXIMATE. CALL ARIZONA BLUE STAKE FOR FIELD LOCATION AT 8-1-1 or 1-800-STAKE-IT A MINIMUM OF TWO (2) WORKING DAYS PRIOR TO EXCAVATION. THE CONTRACTOR SHALL PROTECT AND MAINTAIN ALL EXISTING UTILITIES ON THE SITE NOT NOTED FOR RELOCATION OR REMOVAL. ANY DAMAGE TO EXISTING UTILITIES, WHETHER SHOWN OR NOT ON THE DRAWING, SHALL BE REPAIRED/REPLACED AT THE CONTRACTOR'S EXPENSE. EXISTING SURFACE FEATURES AND FENCING OUTSIDE OF THE CONSTRUCTION LIMITS SHALL BE REPLACED IN KIND IF DISTURBED.
9. THE ENGINEER AND APPLICABLE AGENCY MUST APPROVE, PRIOR TO CONSTRUCTION, ANY ALTERATION, OR VARIANCE FROM THESE PLANS. ANY VARIATIONS FROM THESE PLANS SHALL BE PROPOSED ON CONSTRUCTION FIELD PRINTS AND TRANSMITTED TO THE ENGINEER.
10. ANY INSPECTION BY THE CITY, COUNTY, ENGINEER, OR OTHER JURISDICTIONAL AGENCY, SHALL NOT, IN ANY WAY, RELIEVE THE CONTRACTOR FROM ANY OBLIGATION TO PERFORM THE WORK IN STRICT COMPLIANCE WITH APPLICABLE CODES AND AGENCY REQUIREMENTS.
11. CONTRACTOR IS RESPONSIBLE FOR PROTECTING ALL UNDERGROUND FACILITIES FROM DAMAGE DURING CONSTRUCTION. THE DEPTH OF COVER IS DESIGNED FOR FINAL GRADE. THEREFORE, EXTRA CARE SUCH AS BERMING OVER PIPES, FLAGGING OR SHRADE SHOULD BE USED DURING CONSTRUCTION TO MAINTAIN COVER OR PROTECT THE UNDERGROUND FACILITIES.
12. THE ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING EARTHWORK QUANTITIES OR THAT THE EARTHWORK FOR THIS PROJECT WILL BALANCE DUE TO THE VARYING FIELD CONDITIONS, CHANGING SOIL TYPES, ALLOWABLE CONSTRUCTION TOLERANCES AND CONSTRUCTION METHODS THAT ARE BEYOND THE CONTROL OF THE ENGINEER. EARTHWORK QUANTITIES SHOWN ARE RAW, AND DO NOT ACCOUNT FOR SOIL SHRINK, SWELL OR GROUND SCARIFICATION.
13. CONTRACTOR SHALL VERIFY HORIZONTAL AND VERTICAL LOCATIONS OF EXISTING PIPE AT PROPOSED CONNECTIONS PRIOR TO NEW PIPE INSTALLATION. NOTIFY ENGINEER IMMEDIATELY OF CONFLICTS OR DISCREPANCIES FROM THE PLANS.
14. CONTRACTOR TO COMPLY WITH ALL ADA REQUIREMENTS RELATING TO CONSTRUCTION.

GENERAL NOTES

1. A GRADING PERMIT IS REQUIRED UNDER 2015 IRC SEC. 105.1.
2. HAUL PERMITS, WHEN REQUIRED, MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT.
3. EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ONSITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DUMPING SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT.
4. TOWN ENGINEER'S OFFICE SHALL BE NOTIFIED BEFORE ANY ONSITE CONSTRUCTION BEGINS, TELEPHONE (480) 948-7411.
5. CERTIFICATION OF FINISH FLOORS OR BUILDING PADS IS THE RESPONSIBILITY OF THE DEVELOPER AND HIS ENGINEER AND SHALL BE SUBMITTED PRIOR TO A REQUEST FOR CERTIFICATE OF OCCUPANCY OR FINAL INSPECTION.
6. A SEPARATE PERMIT IS NECESSARY FOR ANY OFF-SITE CONSTRUCTION.
7. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLANS MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
8. GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT AND BUILDING FLOOR ELEVATIONS.
9. CONTRACTOR SHALL PROVIDE LEVEL BOTTOM IN ALL RETENTION BASINS AT ELEVATIONS AS SHOWN ON THE PLANS. RETENTION BASINS SIDE SLOPES SHALL NOT EXCEED 2:1 ON PRIVATE PROPERTY UNLESS NOTED OTHERWISE ON THE PLANS.
10. CONTRACTOR IS RESPONSIBLE FOR LOCATING AND CONFIRMING DEPTHS OF ALL THE EXISTING UTILITY LINES WITHIN PROPOSED RETENTION BASIN AREAS. IF THE BASIN CANNOT BE CONSTRUCTED AS PER PLAN BECAUSE OF CONFLICT WITH UNDERGROUND UTILITIES THE CONTRACTOR SHOULD REQUEST MODIFICATION OF BASIN CONFIGURATION BY SUBMITTAL OF A PROPOSED PLAN REVISION.
11. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, CONCRETE CHANNELS OR OTHER MEASURES DESIGNED TO PROTECT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO ANY STRUCTURE BEING BUILT.
12. SOILS COMPACTION TEST RESULTS MUST BE SUBMITTED TO THE TOWN ENGINEER'S OFFICE FOR BUILDING PADS THAT HAVE A ONE FOOT OR MORE OF FILL MATERIAL INDICATED. THIS INFORMATION MUST BE SUPPLIED PRIOR TO REQUEST FOR FINAL INSPECTION.
13. THE DESIGN ENGINEER SHALL INDICATE ALL KNOWN EXISTING UNDERGROUND UTILITIES WITHIN PROPOSED RETENTION AREAS. THE BASIN SHOULD BE DESIGNED TO MAINTAIN A MINIMUM 15" OF COVER UTILITY LINES.
14. CLEARANCE FOR OCCUPATION OF ANY BUILDING IS DENIED UNTIL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
15. APPROVAL OF THESE PLANS SHALL NOT PREVENT THE TOWN FROM REQUIRING CORRECTION OF ERRORS, IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW OR ORDINANCE.
16. SCARRED ROCK SURFACES (CUT AND FILL) ARE TO BE TREATED WITH CHEMICAL COLOR TREATMENT TO BLEND WITH THE NATIVE ROCK SURFACES.
17. NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL ALL HILLSIDE STIPULATIONS AND ALL TOWN CODE REQUIREMENTS ARE COMPLIED WITH INCLUDING, BUT NOT LIMITED TO LANDSCAPING, FIRE FLOW, FIRE SAFETY AND ALL ONSITE AND OFF-SITE IMPROVEMENTS.
18. ALL OUTDOOR LIGHTING SHALL BE IN CONFORMANCE WITH SECTION 2208 OF THE TOWN CODE.
19. ALL EXCESS FILL MATERIAL SHALL BE REMOVED FROM THE SITE WITH NO NEW SPILL SLOPES.
20. THE USE OF HYDRAULIC RAM HAMMERS OR OTHER HEAVY EQUIPMENT USED TO CUT THROUGH ROCK, INCLUDING MACHINERY WITH AUDIBLE BACK UP WARNING DEVICES SHALL BE LIMITED TO USE BETWEEN THE HOURS OF 7:00AM OR SUNRISE, WHICHEVER IS LATER, AND 6:00PM OR SUNSET, WHICHEVER IS EARLIER, MONDAY THROUGH FRIDAY WITH LIMITED WORK ON SATURDAY AND NO WORK ON SUNDAY OR LEGAL HOLIDAYS. RAM HAMMERS AND OTHER HEAVY EQUIPMENT CANNOT BE USED ON SATURDAYS WITHOUT A WAIVER FROM THE TOWN MANAGER.
21. CONSTRUCTION STAKING AND/OR FENCING SHALL BE PLACED AROUND THE CONSTRUCTION SITE SO AS TO PROTECT THE UNDISTURBED NATURAL AREAS.

NOTES

1. GRADING TO BE CONFORMANCE WITH THE 2015 IBC.
2. PRIOR TO THE FIRST FOOTING INSPECTION OF ANY TYPE, ALL PROPERTY PINS SHALL BE PLACED BY A REGISTERED LAND SURVEYOR OF THE STATE OF ARIZONA, AND PROPERTY LINES MUST BE PHYSICALLY IDENTIFIED PRIOR TO INSPECTION.
3. THIS PLAN IS DESIGNED TO SHOW SITE GRADING AND DRAINAGE. CONTRACTOR SHALL USE THE ARCHITECTURAL SITE PLAN FOR FINAL HOUSE, WALL STEP, ETC. DIMENSIONS AND LOCATIONS.
4. WHERE ON SITE LOT GRADING OCCURS: THE TOP OF 4" OF EXCAVATED NATIVE SOIL SHALL REMAIN ON SITE AND SHALL BE REUSED AS A NATURAL SOIL SEED BANK FOR ON SITE FINISH GRADING AND SUPPLEMENTAL SEEDING OF DISTURBED AREAS.
5. A DUST CONTROL PLAN MEETING THE REQUIREMENTS OF RULE 310 OF THE MARICOPA COUNTY AIR POLLUTION CONTROL REGULATIONS, AS AMENDED, IS REQUIRED.
6. ALL EXTERIOR SITE LIGHTING SHALL COMPLY WITH THE TOWN OF PARADISE VALLEY ZONING ORDINANCE NO. 1023 FOR FUTURE TYPE, LOCATION, HEIGHT, WATTAGE BASED UPON FIXTURES INSTALLED.
7. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING UTILITIES AND FEATURES PRIOR TO CONSTRUCTION FOR CONFLICT PURPOSES AND COORDINATE WITH ARCHITECT FOR POTENTIAL CONFLICT RESOLUTION.
8. 5% MINIMUM SLOPE AWAY FROM BUILDING FOR A MINIMUM OF 10' UNLESS NOTED OTHERWISE.

GRADING SPECIFICATIONS

1. EXCAVATION AND GRADING OF THIS SITE IS CLASSIFIED AS "ENGINEERED GRADING" PER 2015 IBC AND WILL BE PERFORMED ACCORDINGLY.
2. THE DEVELOPER WILL RETAIN A SOILS ENGINEER DURING CONSTRUCTION TO INSPECT PROGRESS OF CONSTRUCTION. CONCERNING PREPARATION OF GROUND TO RECEIVE FILLS, TESTING AND REQUIRED COMPACTION STABILITY OF ALL FINISH SLOPES INCLUDING CUT SLOPES.
3. BEARING MATERIALS FOR FILL UNDER RESIDENCE PAD IF NATIVE MATERIAL IS USED. LARGE ROCK FRAGMENTS MUST BE REMOVED THAT ARE IN EXCESS OF SIX INCHES. REMAINING MATERIAL MUST BE SMALLER PARTICLES OF SAND ROCK THAT CAN BE COMPACTED INTO A DENSE CONDITION.

MAXIMUM PARTICLE SIZE	6 INCHES
PERCENT PASSING NO. 4 SIEVE	35% TO 70%
PERCENT PASSING NO. 200 SIEVE	25% MAX
PLASTICITY INDEX	10% MAX

4. CUT-SLOPES: MAXIMUM CUT SLOPES TO BE 1.0 FOOT HORIZONTAL TO 2.5 FEET VERTICAL.
5. FILL-SLOPES: MAXIMUM FILL SLOPES TO BE 2 FEET HORIZONTAL TO 1 FOOT VERTICAL.
6. COMPACTION FILL MATERIAL MUST BE PLACED ON LEVELED BENCHES CUT INTO UNDISTURBED EXISTING HILLSIDE. PLACE FILL IN HORIZONTAL LIFTS OF THICKNESS COMPATIBLE WITH THE COMPACTION EQUIPMENT USED. COMPACT TO A MINIMUM OF 95% OF THE MAXIMUM A.S.T.M. DENSITY AT THE OPTIMUM MOISTURE CONTENT OF ± TWO PERCENT. THIS PERTAINS TO ALL ENGINEERED STRUCTURAL FILL SUPPORTING STRUCTURES AND INCLUDING FILL UNDER ANY OF THE RETAINING WALLS. COMPACTION TEST RESULTS SHALL BE SUBMITTED TO THE SOILS ENGINEER AND TOWN OF PARADISE VALLEY BUILDING AND SAFETY DEPARTMENT.
7. AND RETAINING WALLS ADJACENT TO THE PROPERTY LINES WILL BE UNDER THE SCOPE OF SPECIAL INSPECTION BY THE SOILS ENGINEER. THE DEVELOPER SHALL NOTIFY THE ADJOINING PROPERTY OWNERS IN WRITING, TEN DAYS PRIOR TO START OF CONSTRUCTION ON THESE WALLS PER SECTION 2903-8 OF I.B.C. THE DEVELOPER WILL HAVE TO PROVIDE MEANS OF PROTECTION OF ADJACENT PROPERTY WHILE THIS WORK IS UNDER CONSTRUCTION.
8. ALL EXPOSED CUT AND FILL SHALL BE TREATED WITH AN APPROVED AGING AGENT TO MINIMIZE TO VISUAL CONTINUITY.
9. NO CERTIFICATE OF OCCUPANCY SHALL BE ISSUED UNTIL ALL HILLSIDE STIPULATIONS AND ALL TOWN CODE REQUIREMENTS ARE COMPLIED WITH INCLUDING, BUT NOT LIMITED TO LANDSCAPING, FIRE FLOW, FIRE SAFETY AND ALL ONSITE AND OFF-SITE IMPROVEMENTS.
10. ALL OUTDOOR LIGHTING SHALL BE IN CONFORMANCE WITH SECTION 1023 OF THE TOWN CODE.
11. ALL EXCESS FILL MATERIAL SHALL BE REMOVED FROM THE SITE WITH NO NEW SPILL SLOPES.
12. THE USE OF HYDRAULIC HAMMERS AND HEAVY EQUIPMENT SHALL BE LIMITED TO USE BETWEEN THE HOURS OF 7:00 AM AND 6:00 PM MONDAY THROUGH SATURDAY WITH NO WORK ON SUNDAY.
13. CONSTRUCTION STAKING AND/OF FENCING SHALL BE PLACED AROUND THE CONSTRUCTION SITE SO AS TO PROTECT THE UNDISTURBED NATURAL AREAS.

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C1.2-NTS.DWG

PARADISE VALLEY GENERAL NOTES

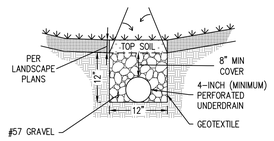
1. PRIOR TO THE FIRST INSPECTION OF STRUCTURES WITHIN 3 FEET OF A SETBACK LINE, THE PROPERTY PINS SHALL BE PLACED BY A REGISTERED CIVIL ENGINEER OR LAND SURVEYOR OF THE STATE OF ARIZONA, AND THE PROPERTY LINE(S) IDENTIFIED.
2. WHERE EXCAVATION IS TO OCCUR THE TOP 4" OF EXCAVATED NATIVE SOIL SHALL REMAIN ON THE SITE AND SHALL BE REUSED IN A MANNER THAT TAKES ADVANTAGE OF THE NATURAL SOIL SEED BANK IT CONTAINS.
3. ALL WORK REQUIRED TO COMPLETE THE CONSTRUCTION COVERED BY THIS PLAN SHALL BE IN ACCORDANCE WITH THE MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) STANDARD SPECIFICATIONS AND DETAILS AND CURRENT SUPPLEMENTS THEREOF PER THE LOCAL MUNICIPALITY UNLESS SPECIFIED OTHERWISE IN THESE PLANS OR ELSEWHERE IN THE CONTRACT DOCUMENTS.
4. THE CONTRACTOR IS TO COMPLY WITH ALL LOCAL STATE, AND FEDERAL LAWS AND REGULATIONS APPLICABLE TO THE CONSTRUCTION COVERED BY THIS PLAN.
5. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING AND COMPLYING WITH ALL PERMITS REQUIRED TO COMPLETE ALL WORK COVERED BY THIS PLAN.
6. ALL EXTERIOR SITE LIGHTING SHALL COMPLY WITH THE APPLICABLE REQUIREMENTS FOR TYPE, LOCATION, HEIGHT, WATTAGE, AND LUMEN BASED UPON THE FIXTURES INSTALLED PURSUANT TO SECTION 1023 OF THE TOWN OF PARADISE VALLEY ZONING ORDINANCE FOR NON-HILLSIDE PROPERTIES, SECTION 2208 OF THE TOWN OF PARADISE VALLEY ZONING ORDINANCE FOR HILLSIDE PROPERTIES, OR AS SPECIFIED IN THE SPECIAL USE PERMIT FOR SPECIAL USE PERMIT PROPERTIES.
7. A DUST CONTROL PLAN AND PERMIT MEETING THE REQUIREMENTS OF RULE 310 OF THE MARICOPA COUNTY AIR POLLUTION CONTROL REGULATIONS, AS AMENDED, IS REQUIRED.
8. A SEPARATE RIGHT-OF-WAY PERMIT IS NECESSARY FOR ANY OFF-SITE CONSTRUCTION.
9. AN APPROVED GRADING AND DRAINAGE PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
10. EAVE PROJECTIONS INTO REQUIRED SETBACKS ARE LIMITED TO A MAXIMUM OF 24" PURSUANT TO SECTION 1008 OF THE TOWN OF PARADISE VALLEY ZONING ORDINANCES.
11. ALL STRUCTURES AND LANDSCAPING WITHIN THE SIGHT VISIBILITY TRIANGLE SHALL HAVE A 2 FOOT MAXIMUM HEIGHT.
12. ALL NEW AND EXISTING ELECTRICAL SERVICE LINES SHALL BE BURIED PER THE TOWN OF PARADISE VALLEY REQUIREMENTS.
13. IT SHALL BE THE RESPONSIBILITY OF THE PERMITTEE TO ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, AND TO SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF AN ENGINEERING CONSTRUCTION PERMIT.
14. EXISTING AND/OR NEW UTILITY CABINETS AND PEDESTALS SHALL BE LOCATED A MINIMUM OF 4' BEHIND ULTIMATE BACK OF CURB LOCATION.
15. POOL, SPA, BARBECUE AND ANY PROPOSED STRUCTURES OVER 8" ABOVE GRADE REQUIRE SEPARATE PERMIT APPLICATIONS.
16. POOLS SHALL BE CONSTRUCTED BY SEPARATE PERMIT AND SECURED FROM UNWANTED ACCESS PER TOWN CODE, ARTICLE 5-2.
17. ALL FILL MATERIAL UNDER SLABS AND WALKS SHALL BE COMPACTED TO NOT LESS THAN 95%
18. SETBACK CERTIFICATION IS REQUIRED AND SHALL BE PROVIDED TO TOWN INSPECTOR PRIOR TO STEM WALL INSPECTION.
19. FOR BUILDING PADS THAT HAVE 1' OR MORE OF FILL MATERIAL, SOILS COMPACTION TEST RESULTS ARE REQUIRED AND SHALL BE PROVIDED TO TOWN INSPECTOR PRIOR TO PRE-SLAB INSPECTION.
20. FINISHED FLOOR ELEVATION CERTIFICATION IS REQUIRED AND SHALL BE PROVIDED TO TOWN INSPECTOR PRIOR TO FRAMING INSPECTION.
21. MAIL BOXES SHALL COMPLY WITH THE TOWN OF PARADISE VALLEY STANDARDS FOR MAIL BOXES IN THE RIGHT-OF-WAY FOR HEIGHT, WIDTH AND BREAK AWAY FEATURES.
22. ALL PATIOS, WALKS, AND DRIVES TO SLOPE AWAY FROM BUILDING AND GARAGES AT A MINIMUM SLOPE OF 1/4" PER FOOT UNLESS SPECIFIED OTHERWISE.
23. TRENCH BEDDING AND SHADING SHALL BE FREE OF ROCKS AND DEBRIS.
24. THE TOWN ONLY APPROVES THE SCOPE OF WORK AND NOT THE ENGINEERING DESIGN. ANY CONSTRUCTION QUANTITIES SHOWN ARE NOT VERIFIED BY THE TOWN.
25. THE APPROVAL OF THE PLANS IS VALID FOR 180 DAYS. IF A PERMIT FOR CONSTRUCTION HAS NOT BEEN ISSUED WITHIN 180 DAYS, THE PERMIT MUST BE RENEWED.
26. A TOWN INSPECTOR WILL INSPECT ALL WORK WITHIN THE TOWN'S RIGHTS-OF-WAY. NOTIFY TOWN INSPECTION SERVICES TO SCHEDULE A PRECONSTRUCTION MEETING PRIOR TO STARTING CONSTRUCTION.
27. WHENEVER EXCAVATION IS NECESSARY, CALL ARIZONA811 BY DIALING 811 or 602-263-1100, TWO (2) WORKING DAYS BEFORE EXCAVATON BEGINS.
28. EXCAVATIONS SHALL COMPLY WITH REQUIREMENTS OF OSHA EXCAVATION STANDARDS [29 CFR, PART 1926, SUBPART P). UNDER NO CIRCUMSTANCES WILL THE CONTRACTORS BE ALLOWED TO WORK IN A TRENCH LOCATED WITHIN THE TOWN'S RIGHT-OF-WAY WITHOUT PROPER SHORING OR EXCAVATION METHODS.
29. PERMIT HOLDER SHALL POST A 6 SQUARE FOOT (2'X3') IDENTIFICATION SIGN, MADE OF DURABLE MATERIAL, IN THE FRONT YARD OF SUBJECT PROPERTY AND NOT IN THE TOWN'S RIGHT-OF-WAY. THE SIGN MAY NOT EXCEED A MAXIMUM OF 6 FEET IN HEIGHT FROM GRADE TO TOP OF THE SIGN. THE SIGN MUST INCLUDE THE PERMITIEE OR COMPANY NAME; PHONE NUMBER. TYPE OF WORK, ADDRESS OF PROJECT AND TOWN CONTACT NUMBER, 480-348-3556.
30. WHEN DEEMED NECESSARY, A 6-FOOT HIGH CHAIN LINK FENCE MUST BE INSTALLED AROUND THE CONSTRUCTION AREA TO PREVENT ANY POTENTIAL SAFETY HAZARD FOR THE PUBLIC. THE FENCE SHALL BE SET BACK AT LEAST 10 FEET FROM ALL RIGHTS-OF-WAY AND HAVE A 50-FOOT STREET CORNER SITE TRIANGLE WHERE APPLICABLE.
31. CLEAR ACCESS FOR NEIGHBORING PROPERTIES AND EMERGENCY VEHICLES MUST BE MAINTAINED AT ALL TIMES. CONSTRUCTION RELATED VEHICLES MUST BE LEGALLY PARKED ONLY ON ONE SIDE OF THE STREET OR JOB SITE PROPERTY.
32. ALL CONSTRUCTION DEBRIS AND EQUIPMENT MUST BE CONTAINED ON SITE AT ALL TIMES. CONTRACTOR AND PROPERTY OWNER MUST MAINTAIN THE JOB SITE FREE OF LITTER AND UNSIGHTLY MATERIALS AT ALL TIMES. CONSTRUCTION MATERIALS ARE PROHIBITED IN THE TOWN'S RIGHT-OF-WAY.
33. CONSTRUCTION ACTIVITIES ARE PERMITTED BETWEEN THE HOURS OF 7 AM AND 5 PM MONDAY THROUGH FRIDAY. CONSTRUCTION ACTIVITIES MAY START ONE (1) HOUR EARLIER DURING THE SUMMER (MAY 1ST THROUGH SEPTEMBER 30TH).
34. THE USE AND OPERATION OF FUEL-FIRED GENERAIORS IS PROHIBITED UNLESS DUE TO A HARDSHIP. TOWN APPROVAL SHALL BE REQUIRED.
35. THE CONTRACTOR AND PROPERTY OWNER SHALL BE LIABLE FOR ANY DAMAGE DONE TO ANY PUBLIC PROPERTY AS A RESULT OF ANY CONSTRUCTION OR CONSTRUCTION RELATED ACTIVITIES. NO CERTIFICATE OF OCCUPANCY WILL BE ISSUED UNTIL ALL AFFECTED RIGHTS-OF-WAY ARE CLEANED AND/OR REPAIRED TO THEIR ORIGINALCONDITION AND UNTIL ANY AND ALL DAMAGES TO AFFECTED PROPERTIES ARE RESTORED TO ORIGINAL CONDITION.
36. A KEYED SWITCH SHALL BE REQUIRED ON ALL NEW AND EXISTING ELECTRIC ENTRY GATES. THE KEYED SWITCH SHALL BE INSTALLED IN A LOCATION THAT IS READILY VISIBLE AND ACCESSIBLE. KNOX BOX ORDER FORMS ARE AVAILABLE AT THE TOWN'S BUILDING SAFETY DEPARTMENT.
37. PROPERTY OWNER, BUILDER, OR GENERAL CONTRACTOR WILL BE RESPONSIBLE FOR CONTROLLING DUST FROM THE SITE AT ALL TIMES. ALL MEANS NECESSARY SHALL BE USED BY THE BUILDER OR GENERAL CONTRACTOR TO CONTROL THE EXISTENCE OF DUST CAUSED BY ANY EARTHWORK, SPRAY APPLICATION OF MATERIALS, OR OTHER DUST-CAUSING PRACTICES REQUIRED BY THE CONSTRUCTION PROCESS.
38. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE TOWN FROM REQUIRING CORRECTION OF ERRORS IN THE PLANS WHERE SUCH ERRORS ARE SUBSEQUENTLY FOUND TO BE IN VIOLATION OF ANY LAW, ORDINANCE, HEALTH, SAFETY, OR OTHER DESIGN ISSUES.
39. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTION DITCHES, PIPES PROTECTIVE BERMS, CONCRETE CHANNELS OR OTHER MEASURES DESIGNED TO PROTECT PROPOSED AND EXISTING IMPROVEMENTS FROM RUNOFF OR DAMAGE FROM STORM WATER, MUST BE CONSTRUCTED PRIOR TO THE CONSTRUCTION OF ANY IMPROVEMENTS.

PAVING CONSTRUCTION NOTES

1	INSTALL 3" AC OVER 6"ABC PER ASPHALTIC PAVEMENT SECTION#1 ON SHT C1.2	17	3881 SY
2	INSTALL 2"AC OVER 6" ABC PER ASPHALTIC PAVEMENT SECTION#2 ON SHT C1.2		6054 SY
3	INSTALL 3" VALLEY GUTTER PER MAG STD DTL 240		190 SF
4	INSTALL 18" WIDE RIBBON CURB PER MAG STD DTL 220-1, TYPE B (MODIFIED WIDTH)		1115 LF
4a	INSTALL 4" ROLL CURB AND GUTTER PER MAG STD DTL 220-1, TYPE C		257 LF
5	INSTALL SINGLE CURB TO RIBBON CURB TRANSITION PER DTL ON SHT C1.2		15 EA
5a	INSTALL VERTICAL CURB AND GUTTER TO RIBBON CURB TRANSITION PER DTL ON SHT C1.2		3 EA
5b	INSTALL VERTICAL CURB AND GUTTER TO SINGLE CURB TRANSITION PER DTL ON SHT C1.2		3 EA
5c	INSTALL SINGLE CURB TO ROLL CURB TRANSITION PER DTL ON SHT C1.2		3 EA
6	INSTALL 6" SINGLE CURB PER MAG STD DTL 222, TYPE A		2167 LF
6a	INSTALL 6" VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1, TYPE A	17	2252 LF
7	INSTALL 6" VALLEY GUTTER AND APRON PER MAG STD DTL 240		348 SF
7a	INSTALL 6" VALLEY GUTTER PER DTL ON SHT C1.3		151 SF
8	INSTALL CONCRETE SIDEWALK PER MAG STD DTL 230 (WIDTH PER PLANS) SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION	13 17	7064 SF
8a	HARDSCAPE, SEE ARCHITECTURAL PLANS FOR FINISH AND ADDITIONAL INFORMATION	15	73649 SF
8b	INSTALL GRASSPAVE2 FIRE LANE PER SECTION#3 ON SHT C1.2		3509 SF
8c	INSTALL DG FIRE LANE PER SECTION#4 ON SHT C1.2		7381 SF
8d	INSTALL CONCRETE SIDEWALK PER MAG STD DTL 230 (WIDTH PER PLANS) COLOR SHALL BE SAN DIEGO BUFF OR APPROVED EQUAL	17	1864 SF
9	INSTALL SIDEWALK RAMP PER MAG STD DTL 237-3		2 EA
9a	INSTALL SIDEWALK RAMP PER DETAIL 4 ON SHT C3.2		8 EA
9b	INSTALL SIDEWALK RAMP PER MAG STD DTL 238-2	17	1 EA
10	INSTALL ACCESSIBLE PARKING STALL WITH WHEEL STOP, SIGNS AND STRIPING PER DTL ON SHT C1.3, PARKING NOT TO EXCEED 2% SLOPE IN ANY DIRECTION		3 EA
10a	INSTALL CONCRETE WHEEL STOP PER DTL ON SHT C1.3		2 EA
11	INSTALL 4" WIDE PAINT STRIP		23 EA
12	ADJUST CLEANOUT FRAME AND COVER PER MAG STD DTL 270		15 EA
12a	ADJUST MANHOLE FRAME AND COVER PER MAG STD DTL 422		3 EA
12b	ADJUST MANHOLE FRAME AND COVER PER MAG STD DTL 422, CONCRETE COLLAR SHALL BE BLACK CONCRETE.		1 EA
13	ADJUST WATER VALVE FRAME AND COVER PER MAG STD DTL 270		21 EA
13a	ADJUST WATER VALVE FRAME AND COVER PER MAG STD DTL 270, CONCRETE COLLAR SHALL BE BLACK CONCRETE		1 EA
14	INSTALL 6" CONCRETE PAVEMENT PER SECTION#3 ON SHT C1.2		5790 SF
17	INSTALL 25' COMMERCIAL DRIVEWAY PER MAG STD DTL 250-2		2 EA
18	INSTALL R1-1 30"x30" STOP SIGN PER MUTCD STD'S, SIGN POST AND BASE PER MAG STD DTL 131 TYPE B		2 EA
19	INSTALL 4" FIRE HYDRANT PROTECTION BOLLARD PER MAG STD DTL 140 TYPE 1 AND DTL ON SHT C1.3		10 EA
20	UNDERGROUND ELECTRICAL SLEEVE, SEE ELECTRICAL PLANS FOR MORE INFO		722 LF
21	UNDERGROUND ELECTRICAL RISER, SEE ELECTRICAL PLANS FOR MORE INFO		1 EA
22	INSTALL SAFETY FENCE, SEE ARCHITECTURAL PLANS FOR MORE INFO	15	6 EA

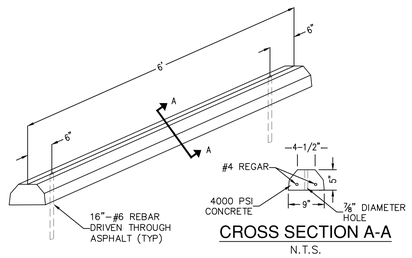
WATER CONSTRUCTION NOTES

1	INSTALL 6" DIP WATER LINE SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE		427 LF
2	INSTALL 3" DIP WATER LINE SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE		469 LF
2a	INSTALL 2.5" PVC WATER LINE SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE		749 LF
2b	INSTALL 2" PVC WATER LINE SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE		113 LF
2c	INSTALL 3/



FRENCH DRAIN DETAIL

N.T.S.

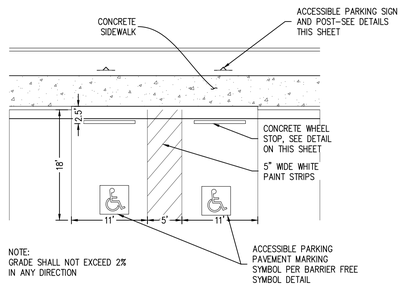


CROSS SECTION A-A

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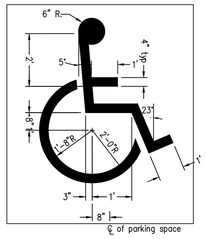
CONCRETE WHEEL STOP DETAIL

N.T.S.



ACCESSIBLE PARKING DETAIL

N.T.S.



BARRIER FREE SYMBOL DETAIL

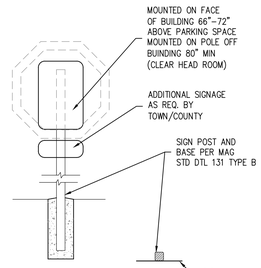
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PER ADA STANDARDS

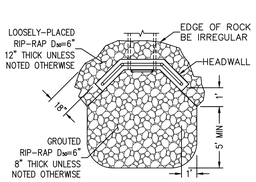
ACCESSIBLE PARKING SIGN

N.T.S.



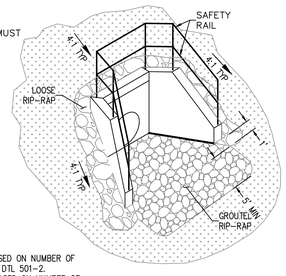
SIGN POST

N.T.S.



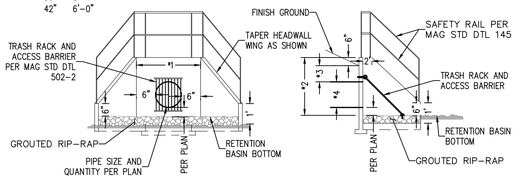
RIP-RAP DETAIL

N.T.S.



NOMINAL PIPE SIZE	WING LENGTH
12"	3'-4"
15"	4'-0"
18"	4'-0"
21"	4'-8"
24"	4'-8"
30"	4'-8"
36"	5'-4"
42"	6'-0"

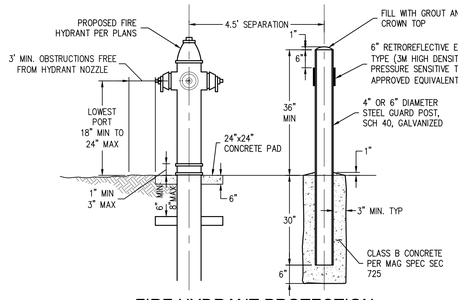
*1-WIDTH VARIES BASED ON NUMBER OF PIPES, SEE MAG STD DTL 501-2.
*2-HEIGTH VARIES BASED ON NUMBER OF PIPES, SEE MAG STD DTL 501-2.
*3-1' MINIMUM COVER.
*4-NUMBER OF PIPES AND PIPES DIAMETER PER PLANS.



HEADWALL/RIP-RAP DETAIL

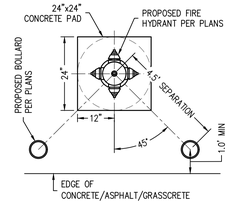
MAG DTL 501-1 (MODIFIED)

N.T.S.



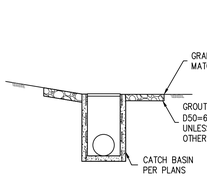
FIRE HYDRANT PROTECTION BOLLARD DETAIL

N.T.S.



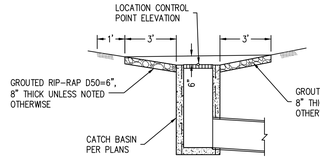
PLAN VIEW

N.T.S.



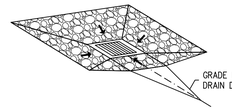
SECTION "A - A"

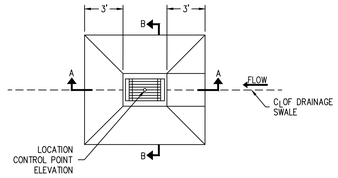
N.T.S.



SECTION "B - B"

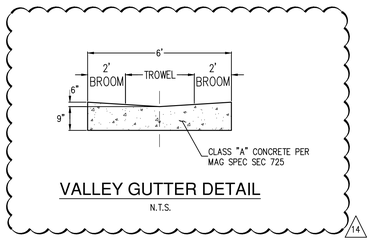
N.T.S.





GROUTED RIP-RAP APRON DETAIL

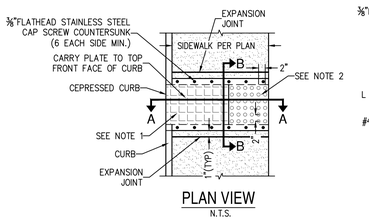
N.T.S.



VALLEY GUTTER DETAIL

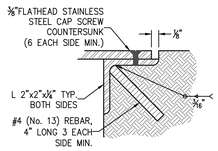
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14



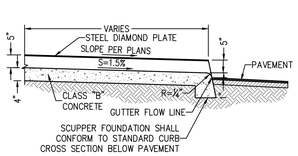
PLAN VIEW

N.T.S.



DETAIL "A"

N.T.S.



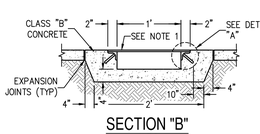
SECTION "A"

N.T.S.

SIDEWALK SCUPPER DETAIL

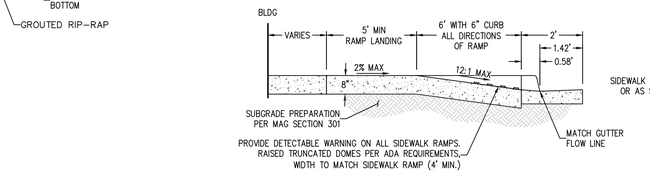
N.T.S.

NOTES:
1. ½" THICK STEEL DIAMOND PLATE ASTM A-36. STEEL DIAMOND PLATE SHALL BE PRIMED AND PAINTED (2 COATS MIN.) WITH A HIGH GLOSS HEAVY DUTY INDUSTRIAL ENAMEL PAINT W/ UV INHIBITORS.
2. 12"x12" AND ½" THICK STEEL DIAMOND PLATE ASTM A-36 WITH 1" DIAMETER PERFORATIONS (TOTAL OF 36). STEEL DIAMOND PLATE SHALL BE PRIMED AND PAINTED (2 COATS MIN.) WITH A HIGH GLOSS HEAVY DUTY INDUSTRIAL ENAMEL PAINT W/ UV INHIBITORS.
3. STEEL DIAMOND PLATE SHALL BE DELIVERED AS ONE PIECE, CONFORMING TO THE REQUIRED SCUPPER DIMENSIONS. PLATES SHALL NOT BE SPLICED.



SECTION "B"

N.T.S.

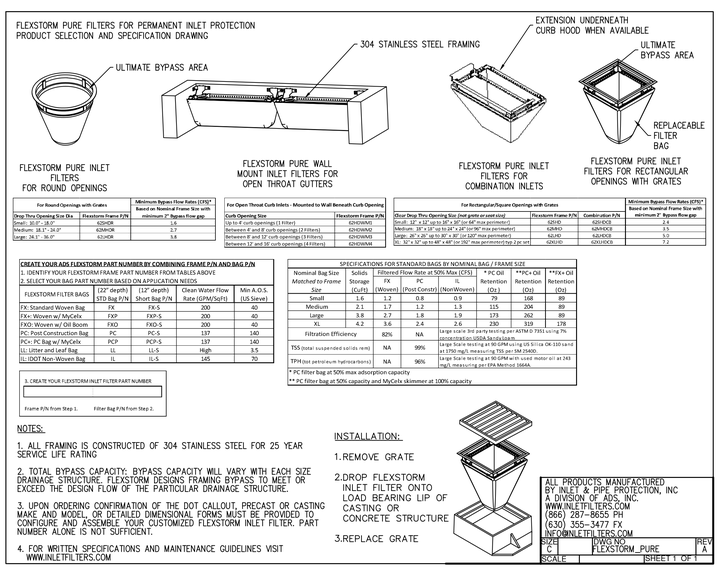


SECTION "A"

N.T.S.

SIDEWALK RAMP DETAIL #1

N.T.S.



orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
oneil.t@owp.com
602.257.1764 t
602.257.9029 f
www.owp.com

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Bowman CONSULTING
Bowman Consulting Group, Ltd.
1295 West Washington, Suite 108
Tempe, Arizona 85281
Phone (480) 629-8830
www.bowmanconsulting.com
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REGISTERED PROFESSIONAL ENGINEER
48621
DAVID MALDONADO-CAMOU
CERTIFICATE NO.
EXPIRES 09-30-19

Scottsdale Unified School District
Cherokee Elementary School Replacement
8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
Dennis Roehler
9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

PROJECT NO.	DATE OF ISSUE
050641-01-001	10.10.19

REVISION NO.	DATE
1	12.10.19
10	03.25.20
12	05.15.20
14	07.15.20
15	10.09.20
17	01.12.21

PROJECT TEAM	DRAWN BY
BOWMAN	LGR

PROJECT PHASE
PERMIT SET

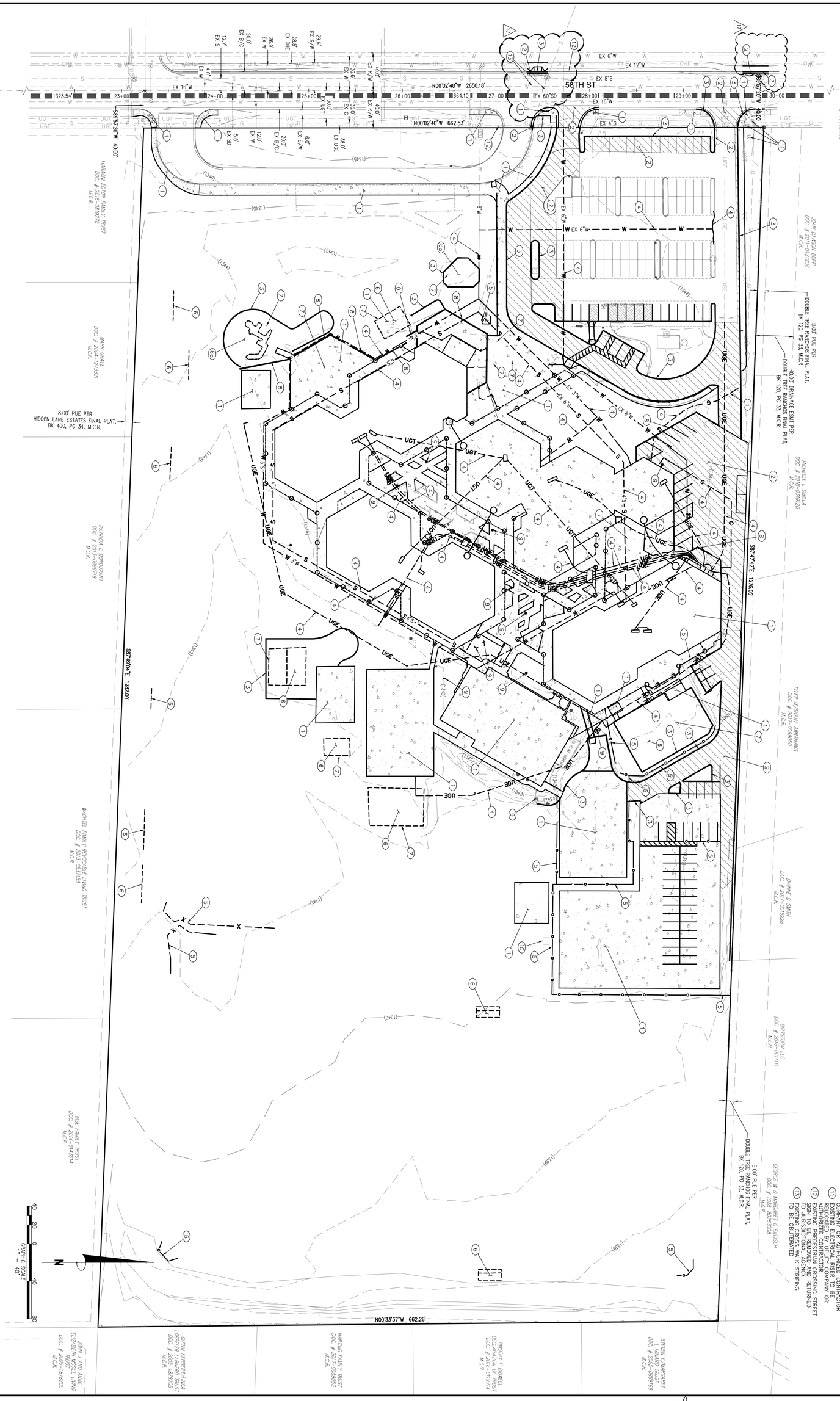
SHEET CONTENTS
GENERAL DETAILS SHEET

SHEET NO.
C1.3

SHT 03 OF 23

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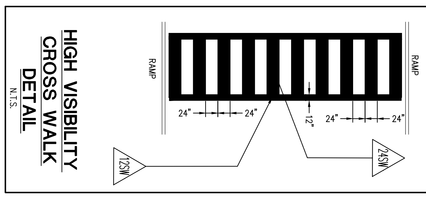
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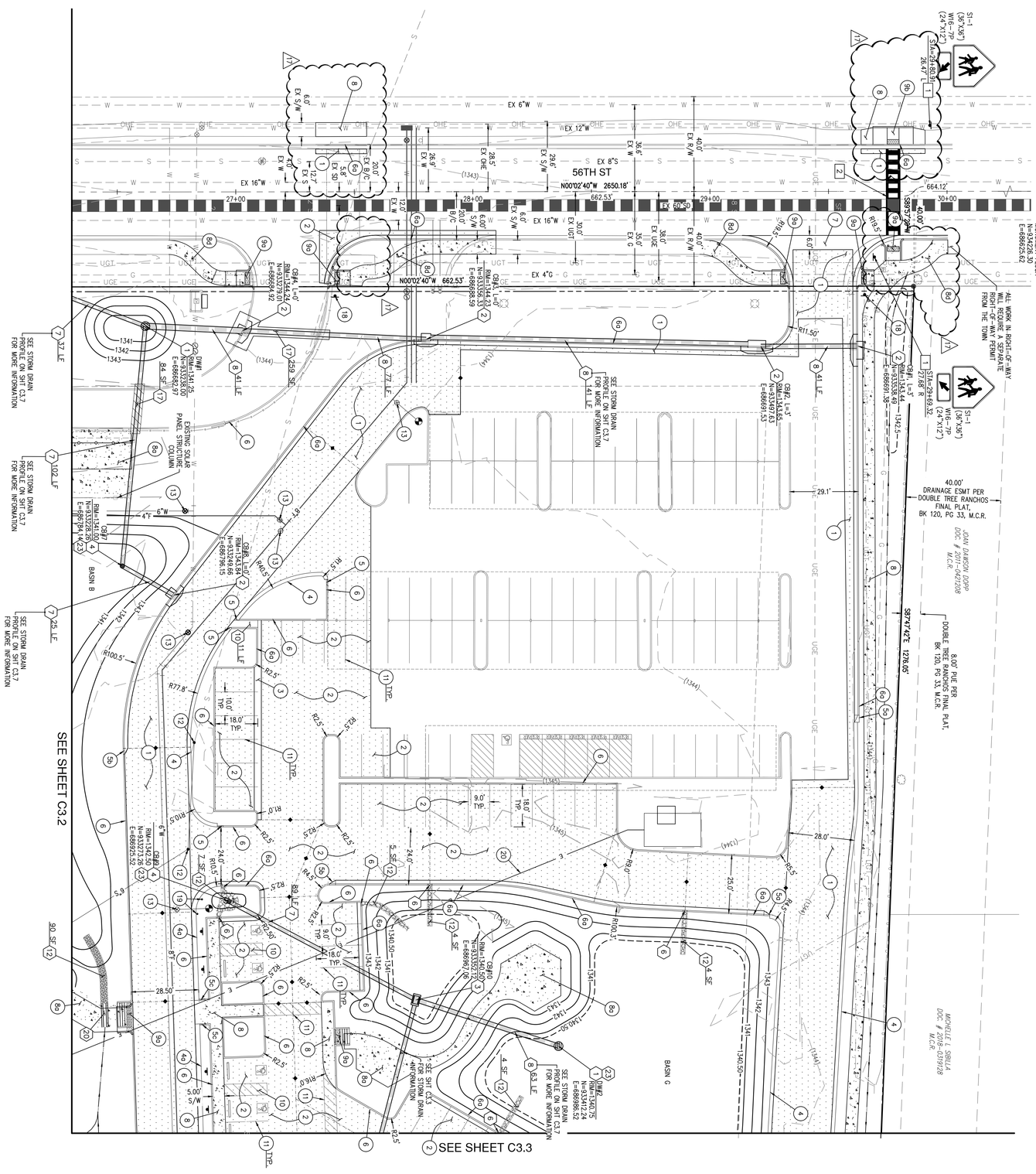

DOUBLETREE RANCH ROAD
56TH ST
WEST QUARTER CORNER SECTION 33, T3N, R4E FOUND BRASS CAP MONUMENT FLUSH N=933578.12 E=688627.88
NORTHWEST CORNER SECTION 33, T3N, R4E FOUND BRASS CAP MONUMENT FLUSH N=934236.30 E=688625.62
S89°57'20"W 40.00'
S89°57'20"W 1323.54'
N00°02'40"W 2650.18'
N00°02'40"W 664.10'
N00°02'40"W 662.53'
S89°57'20"E 40.00'
S89°57'20"E 1276.05'
S89°49'04"E 1282.00'
N00°33'37"W 662.28'
EX 16"W
EX 12"W
EX 8"S
EX 6"W
EX 4"G
EX 60"SD
EX 3"W
EX 6"S
EX 8"W
EX 6"G
EX 3"S
EX 3"G
EX 6"S
EX 8"S
EX 8"G
EX 6"G
EX 8"W
EX 3"W
EX 6"W

ALL WORK WITHIN ROW REQUIRES A ROW PERMIT

HIGH VISIBILITY CROSS WALK DETAIL

N.T.S.




56TH ST
N00°02'40"W 2650.18'
N00°02'40"W 662.53'
EX 50.50'
EX 16"W
EX 6"W
EX 12"W
EX 8"S
EX 4"G
EX 8"W
EX 4"W
EX 6"S
EX 4"S
EX 4"E
EX 4"T
EX 4"F
EX 6"F
EX 8"F
EX 12"F
EX 16"F
EX 4"C
EX 6"C
EX 8"C
EX 12"C
EX 16"C
EX 4"UGT
EX 6"UGT
EX 8"UGT
EX 12"UGT
EX 16"UGT
EX 4"UGE
EX 6"UGE
EX 8"UGE
EX 12"UGE
EX 16"UGE
EX S/W
EX R/W
EX UGT
EX UGE
EX G
EX W
EX S
EX OHE
EX SD
EX B/C
EX CG
EX CURB INLET
EX CATCH BASIN
EX MANHOLE
EX SIGN
EX SOLAR PANEL
EX TREE
EX BOLLARD
EX LIGHT POLE
EX POWER POLE
EX TRANSFORMER
EX TRAFFIC SIGNAL
EX TRAFFIC CONTROL BOX
EX TELEPHONE PEDESTAL
EX FIRE HYDRANT
EX GAS VALVE
EX WATER VALVE
EX SEWER MANHOLE
EX GAS METER
EX WATER METER
EX SEWER CLEANOUT
EX IRRIGATION CONTROL VALVE
EX BACKFLOW PREVENTER
EX GUY WIRE
EX FIRE DEPARTMENT CONNECTION
EX MAILBOX
EX TRASH ENCLOSURE
EX BUILDING
EX CONCRETE
EX ASPHALT
EX LANDSCAPE
EX BOULDERS
EX ROCK
EX WASH
EX RETAINING WALL
EX CMU WALL
EX WOOD FENCE
EX CHAIN LINK FENCE
EX BARBED WIRE FENCE
EX VIEW FENCE
EX WROUGHT IRON FENCE
EX CONCRETE WALL
EX CONCRETE SIDEWALK
EX CONCRETE CURB
EX CONCRETE GUTTER
EX CONCRETE CROSSPAN
EX CONCRETE APRON
EX CONCRETE RAMP
EX CONCRETE SWALE
EX CONCRETE DRIVEWAY
EX CONCRETE PAD
EX CONCRETE STEPS
EX CONCRETE HEADWALL
EX CONCRETE WINGWALL
EX CONCRETE CUTOFF WALL
EX CONCRETE FOOTING
EX CONCRETE PILASTER
EX CONCRETE COLUMN
EX CONCRETE BEAM
EX CONCRETE SLAB
EX CONCRETE DECK
EX CONCRETE PILE
EX CONCRETE PILE CAP
EX CONCRETE PILE CAP
EX CONCRETE PILE CAP

SEE SHEET C3.1

SEE SHEET C3.4

SEE STORM DRAIN PROFILE ON SHT C3.7 FOR MORE INFORMATION

CB#5 RIM=1344.46 N=933203.06 E=686669.73

CB#6 RIM=1341.00 N=933179.31 E=686680.05

CB#17 RIM=1345.81 N=933060.85 E=686836.41

CB#18 RIM=1345.73 N=933054.92 E=686899.53

CB#19 RIM=1344.91 N=933047.70 E=686976.26

CB#25 RIM=1344.60 N=933032.35 E=686897.41

N=933023.19 E=686880.57

N=932995.19 E=686880.57

N=932937.64 E=686721.06

FF=1346.17

BASIN A

BASIN B

BASIN C

EXISTING SOLAR PANEL STRUCTURE COLUMN

BLDG 400 CLASSROOMS FF=1346.17

BLDG 100 ADMIN FF=1344.83

RAISED WALL SEE CHEROKEE ELEMENTARY SCHOOL LANDSCAPE PLANS FOR MORE INFO.

SEE CHEROKEE ELEMENTARY SCHOOL LANDSCAPE PLANS FOR MORE INFO.

LANDSCAPE WALL

56TH ST

N00°02'40"W 662.53'

S89°57'20"W 40.00'

S87°49'04"E 1282.00'

MARAGNI ECTON FAMILY TRUST DOC. # 2016-0819270 M.C.R.

MARK GRACE DOC. # 2004-1273321 M.C.R.

8.00' PUE PER HIDDEN LAKE ESTATES FINAL PLAT, BK 404, PG 34, M.C.R.

ALL WORK IN RIGHT-OF-WAY WILL REQUIRE A SEPARATE RIGHT-OF-WAY PERMIT FROM THE TOWN

WEST QUARTER CORNER SECTION 33, T3N, R4E FOUND BRASS CAP MONUMENT FLUSH N=931576.12 E=686627.68

ALL WORK WITHIN ROW REQUIRES A ROW PERMIT

PAVING CONSTRUCTION NOTES

8 INSTALL CONCRETE SIDEWALK PER MAG STD DTL 230 (WIDTH PER PLANS) SEE LANDSCAPE PLANS FOR ADDITIONAL INFORMATION

8a HARDSCAPE, SEE ARCHITECTURAL PLANS FOR FINISH AND ADDITIONAL INFORMATION

8b INSTALL GRASSPAVE2 FIRE LANE PER SECTION#3 ON SHT C1.2

8c INSTALL DG FIRE LANE PER SECTION#4 ON SHT C1.2

8d INSTALL CONCRETE SIDEWALK PER MAG STD DTL 230 (WIDTH PER PLANS) COLOR SHALL BE SAN DIEGO BUFF OR APPROVED EQUAL

9 INSTALL SIDEWALK RAMP PER MAG STD DTL 237-3

12 ADJUST CLEANOUT FRAME AND COVER PER MAG STD DTL 270

12a ADJUST MANHOLE FRAME AND COVER PER MAG STD DTL 422

12b ADJUST MANHOLE FRAME AND COVER PER MAG STD DTL 422, CONCRETE COLLAR SHALL BE BLACK CONCRETE.

13 ADJUST WATER VALVE FRAME AND COVER PER MAG STD DTL 270

13a ADJUST WATER VALVE FRAME AND COVER PER MAG STD DTL 270, CONCRETE COLLAR SHALL BE BLACK CONCRETE

17 INSTALL 25' COMMERCIAL DRIVEWAY PER MAG STD DTL 250-2

19 INSTALL 4" FIRE HYDRANT PROTECTION BOLLARD PER MAG STD DTL 140 TYPE 1 AND DTL ON SHT C1.3

20 UNDERGROUND ELECTRICAL SLEEVE, SEE ELECTRICAL PLANS FOR MORE INFO

21 UNDERGROUND ELECTRICAL RISER, SEE ELECTRICAL PLANS FOR MORE INFO

22 INSTALL SAFETY FENCE, SEE ARCHITECTURAL PLANS FOR MORE INFO

STORM DRAIN CONSTRUCTION NOTES

4 INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" STANDARD H-20 GRATE

4a INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" PEDESTRIAN H-10 GRATE

4b INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" SOLID H-20 GRATE

7 INSTALL 15" HDPE STORM DRAIN PIPE

12 INSTALL GROUTED RIP-RAP EROSION CONTROL D50=6", 8" MIN THICKNESS

16 INSTALL ROOF DRAIN INLET WITH TEE CLEANOUT PER DTL ON SHT C1.3

18 INSTALL 4" FRENCH DRAIN PER DTL ON SHT C1.3

19 INSTALL SIDEWALK SCUPPER PER LANDSCAPE PLANS

20 INSTALL SIDEWALK SCUPPER PER DTL ON SHT C1.3

21 INSTALL 12"HDPE STORM DRAIN PIPE

23 INSTALL FLEX STORM PURE INLET FILTER LL (LITTERAND LEAF BAG 22" DEPTH) PER DTL ON SHT C1.3

KEY MAP
N.T.S.

C3.1 C4.1 | C3.3 C4.3 | C3.5 C4.5
C3.2 C4.2 | C3.4 C4.4 | C3.6 C4.6

GRAPHIC SCALE
1" = 20'

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orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
oneil.t@owp.com
602.257.1764 t
602.257.9029 f
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REGISTERED PROFESSIONAL ENGINEER CERTIFICATE NO. 48621 DAVID MALDONADO-CAMOU
Bowman CONSULTING
Bowman Consulting Group, Ltd.
1295 West Washington, Suite 108
Tempe, Arizona 85281
Phone (480) 629-8830
www.bowmanconsulting.com
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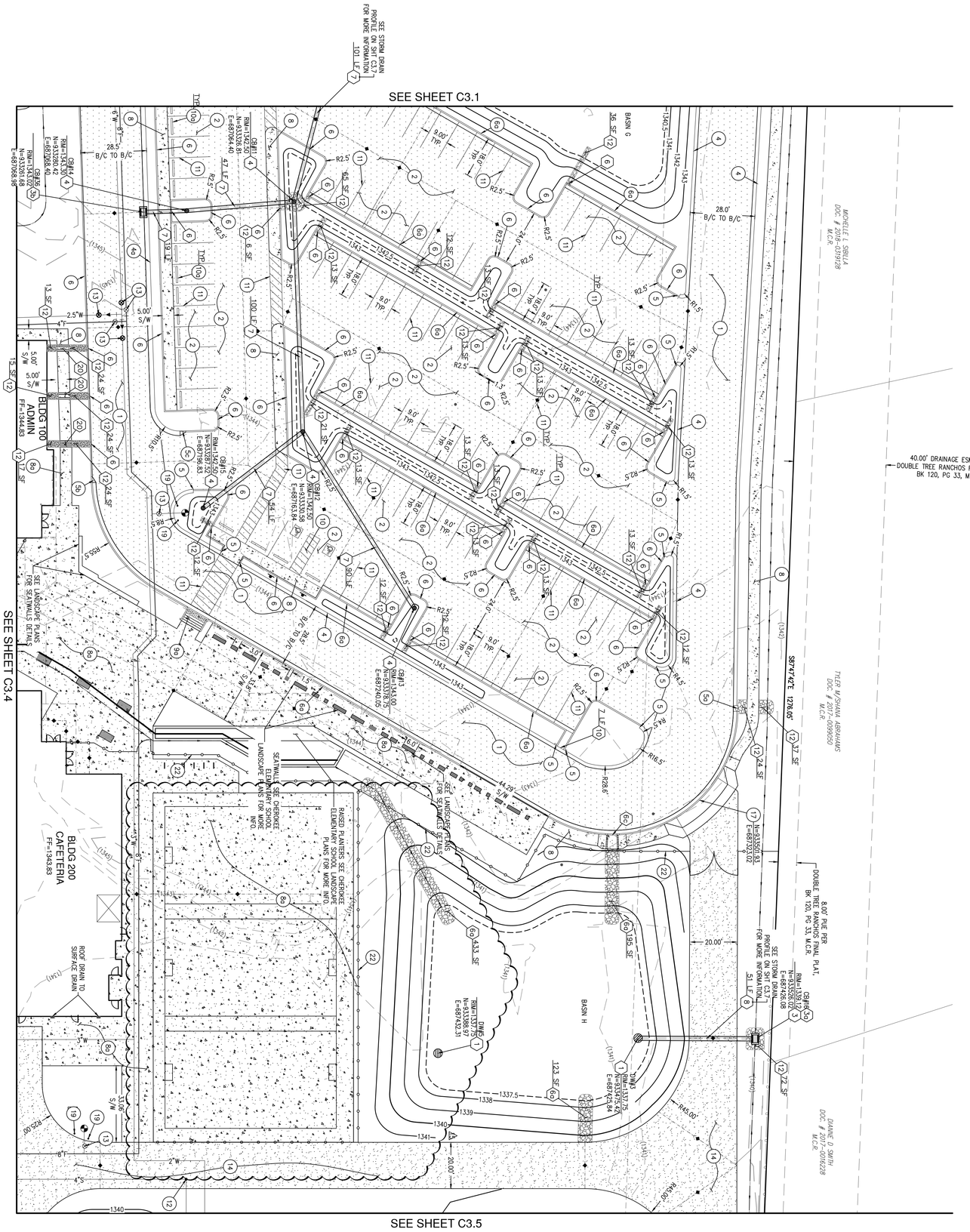
PROJECT TEAM: BOWMAN
DRAWN BY: LGR
PROJECT PHASE: PERMIT SET
SHEET CONTENTS: PAVING PLAN

SHEET NO. C3.2

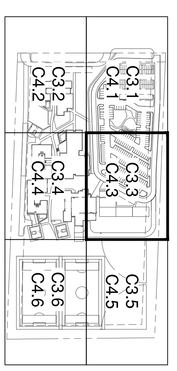
SHT 06 OF 23

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P:\050641 – CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C3.3-RPP.DWG



KEY MAP
N.T.S.



GRAPHIC SCALE
1" = 20'

1. PAVING CONSTRUCTION NOTES
2. INSTALL 3" AC OVER 6"ABC PER ASPHALTIC PAVEMENT SECTION#1
3. INSTALL 2"AC OVER 6" ABC PER ASPHALTIC PAVEMENT SECTION#2
4. INSTALL 18" WIDE RIBBON CURB PER MAG STD DTL 220-1, TYPE B (MODIFIED WIDTH)
5. INSTALL SINGLE CURB TO RIBBON CURB PER MAG STD DTL 220-1, TYPE C
6. INSTALL VERTICAL CURB AND GUTTER TRANSITION PER DTL ON SHT C1.2
7. INSTALL SINGLE CURB TO RIBBON CURB TRANSITION PER DTL ON SHT C1.2
8. INSTALL VERTICAL CURB AND GUTTER TO SINGLE CURB TRANSITION PER DTL ON SHT C1.2
9. INSTALL 6" SINGLE CURB TO ROLL CURB TRANSITION PER DTL ON SHT C1.2
10. INSTALL 6" VERTICAL CURB AND GUTTER PER MAG STD DTL 220-1, TYPE A
11. INSTALL 4" WIDE PAINT STRIP
12. ADJUST CLEANOUT FRAME AND COVER PER MAG STD DTL 270
13. ADJUST WATER VALVE FRAME AND COVER TO GRADE
14. INSTALL 6" CONCRETE PAVEMENT PER SECTION#3 ON SHT C1.2
15. INSTALL 6" CONCRETE DRIVEWAY PER MAG STD DTL 250-2
16. INSTALL 4" FIRE HYDRANT PROTECTION PER DTL ON SHT C1.0 DTL 140 TYPE 1 AND DTL ON SHT C1.3
17. INSTALL SAFETY FENCE, SEE ARCHITECTURAL PLANS FOR MORE INFO
18. INSTALL MAXWELL IV DRYWELL
19. PER DTL ON SHT C4.8
20. INSTALL ACCESSIBLE PARKING STALL WITH ACCESSIBLE SIGNAGE PER DTL ON SHT C1.3. PARKING NOT TO EXCEED 2% SLOPE IN ANY DIRECTION
21. INSTALL GROUTED RIP-RAP CATCH BASIN PER MAG STD DTL 535
22. INSTALL GROUTED RIP-RAP APRON PER MAG STD DTL 533
23. INSTALL STORM DRAIN CATCH BASIN PER MAG STD DTL 537
24. INSTALL 24" NYLOPLAST CATCH BASIN STANDARD H-20 GRATE WITH AN 18" H-20 GRATE
25. INSTALL 1' CURB OPENING AND GROUTED RIP-RAP SPILLWAY PER DTL ON SHT C1.2
26. INSTALL RIP-RAP SPILLWAY PER DTL ON SHT C1.2
27. INSTALL 4" SDR 35 PVC SCUPPER PER MAG STD DTL 535
28. INSTALL 15" HDPE STORM DRAIN PIPE
29. INSTALL 18" HDPE STORM DRAIN PIPE
30. INSTALL 3' CURB OPENING AND GROUTED RIP-RAP (1)
31. INSTALL GROUTED RIP-RAP EROSION CONTROL PER DTL ON SHT C1.3
32. INSTALL 6" SIDEWALK SCUPPER PER DTL ON SHT C1.3

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ARIZONA811
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CLIENT CONTACT:
Dr. Brian Talbot
Director, Facilities
9289 E. Sahuaro Dr.
Scottsdale, AZ 85258
480.484.8503 t

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PAVING PLAN

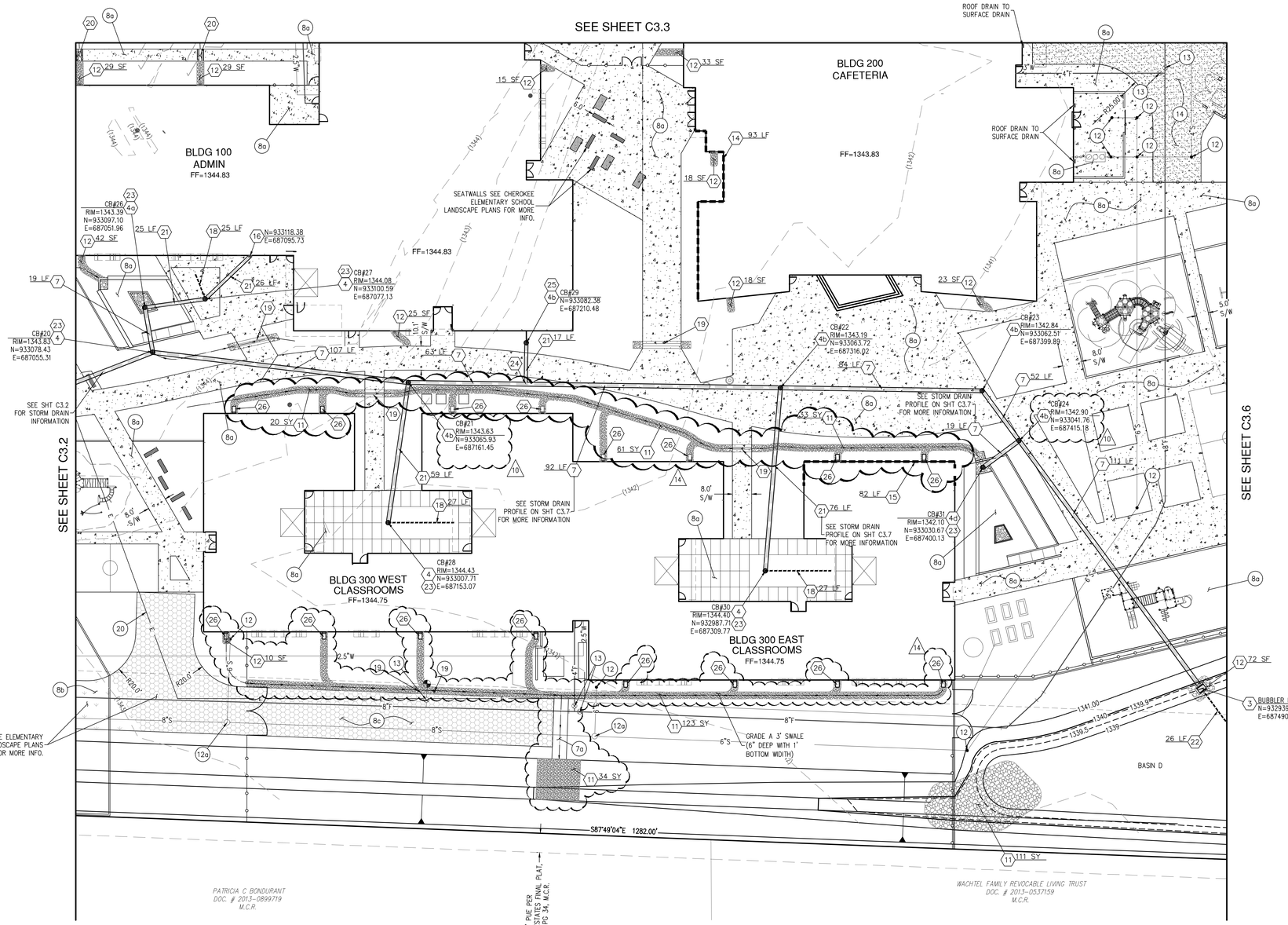
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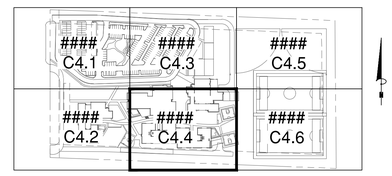
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1295 West Washington, Suite 108
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orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
602.257.1764 t
602.257.0923 f
www.owp.com

PAVING CONSTRUCTION NOTES
- (7a) INSTALL 6" VALLEY GUTTER PER DTL ON SHT C1.3 (14)
- (8a) HARDSCAPE, SEE ARCHITECTURAL PLANS FOR FINISH AND ADDITIONAL INFORMATION
- (8b) INSTALL GRASSPAVE2 FIRE LANE PER SECTION#3 ON SHT C1.2
- (8c) INSTALL DG FIRE LANE PER SECTION#4 ON SHT C1.2
- (12) ADJUST CLEANOUT FRAME AND COVER PER MAG STD DTL 270
- (12a) ADJUST MANHOLE FRAME AND COVER PER MAG STD DTL 422
- (13) ADJUST WATER VALVE FRAME AND COVER PER MAG STD DTL 270
- (14) INSTALL 6" CONCRETE PAVEMENT PER SECTION#3 ON SHT C1.2
- (19) INSTALL 4" FIRE HYDRANT PROTECTION BOLLARD PER MAG STD DTL 140 TYPE 1 AND DTL ON SHT C1.3
- (20) UNDERGROUND ELECTRICAL SLEEVE, SEE ELECTRICAL PLANS FOR MORE INFO

STORM DRAIN CONSTRUCTION NOTES
- (3) INSTALL STORM DRAIN CATCH BASIN PER MAG STD DTL 535
- (4) INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" STANDARD H-20 GRATE
- (4a) INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" PEDESTRIAN H-10 GRATE
- (4b) INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" SOLID H-20 GRATE
- (4d) INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 24" STANDARD H-20 GRATE
- (7) INSTALL 15" HDPE STORM DRAIN PIPE
- (11) INSTALL LOOSE RIP-RAP EROSION CONTROL D50=6", 12" MIN DEPTH WITH GEOTEXTILE FABRIC PROTECTION
- (12) INSTALL GROUTED RIP-RAP EROSION CONTROL D50=6", 8" MIN THICKNESS
- (14) INSTALL BUILDING STEM WALL, MIN TOP OF WALL ELEVATION AS SHOWN ON PLANS, SPECIAL CONDITION FOOTING, REFER TO STRUCTURAL PLANS FOR MORE INFO
- (15) INSTALL BUILDING TURN DOWN FOOTING, MIN OF 0.5' OF COVER, SPECIAL CONDITION FOOTING, REFER TO STRUCTURAL PLANS FOR MORE INFORMATION
- (16) INSTALL ROOF DRAIN INLET WITH TEE CLEANOUT PER DTL ON SHT C1.3
- (18) INSTALL 4" FRENCH DRAIN PER DTL ON SHT C1.3
- (19) INSTALL SIDEWALK SCUPPER PER LANDSCAPE PLANS
- (20) INSTALL SIDEWALK SCUPPER PER DTL ON SHT C1.3
- (21) INSTALL 12"HDPE STORM DRAIN PIPE
- (22) INSTALL 6" PVC STORM DRAIN PIPE
- (23) INSTALL FLEX STORM PURE INLET FILTER LL (LITTERAND LEAF BAG 22" DEPTH) PER DTL ON SHT C1.3
- (24) INSTALL 15"X12" HDPE TEE
- (25) BUILDING CONNECTION, SEE PLUMBING PLANS FOR CONTINUATION
- (26) INSTALL 36"X18" CONCRETE SPLASH BLOCK AT ROOFDRAIN DOWNSPOT





KEY MAP
N.T.S.

N

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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48621
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REGISTERED PROFESSIONAL ENGINEER
CERTIFICATE NO.

Bowman CONSULTING
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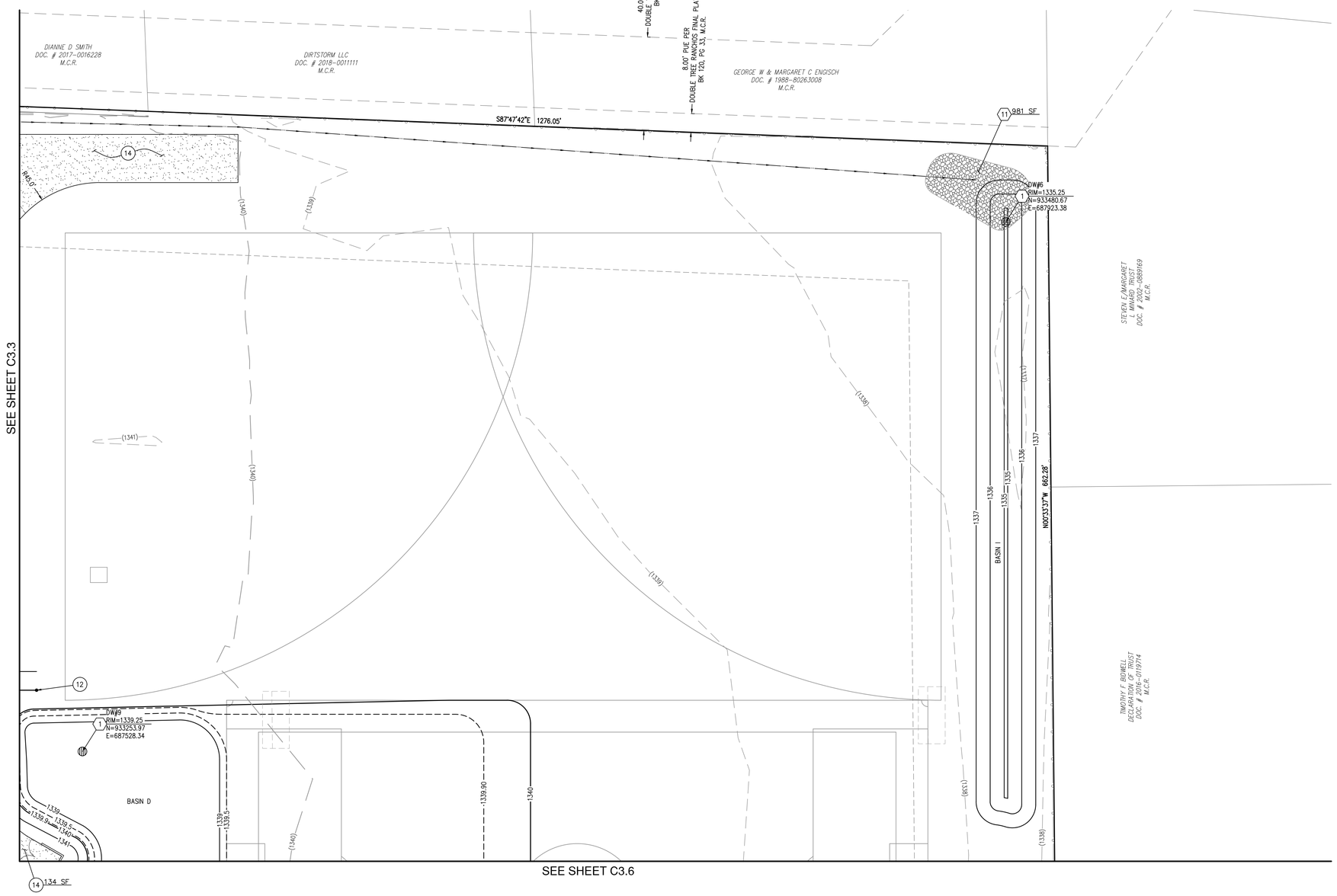
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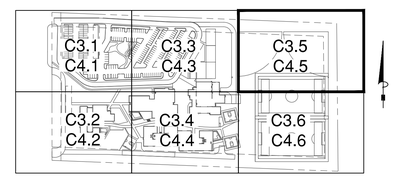
SHEET NO.
C3.4
SHT 08 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C3.4-RPP.DWG

PAVING CONSTRUCTION NOTES
(12) ADJUST CLEANOUT FRAME AND COVER PER MAG STD DTL 270
(14) INSTALL 6" CONCRETE PAVEMENT PER SECTION #3 ON SHT C1.2

STORM DRAIN CONSTRUCTION NOTES
(1) INSTALL MAXWELL IV DRYWELL PER DTL ON SHT C4.8
(11) INSTALL LOOSE RIP-RAP EROSION CONTROL D50=6", 12" MIN DEPTH WITH GEOTEXTILE FABRIC PROTECTION





KEY MAP
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N

20 10 0 20 40
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CERTIFICATE NO.
48621
DAVID
MALDONADO-CAMOU
DATE SIGNED 12-12-19

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Scottsdale Unified School District

Cherokee Elementary School Replacement

8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
Dennis Roehler
9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

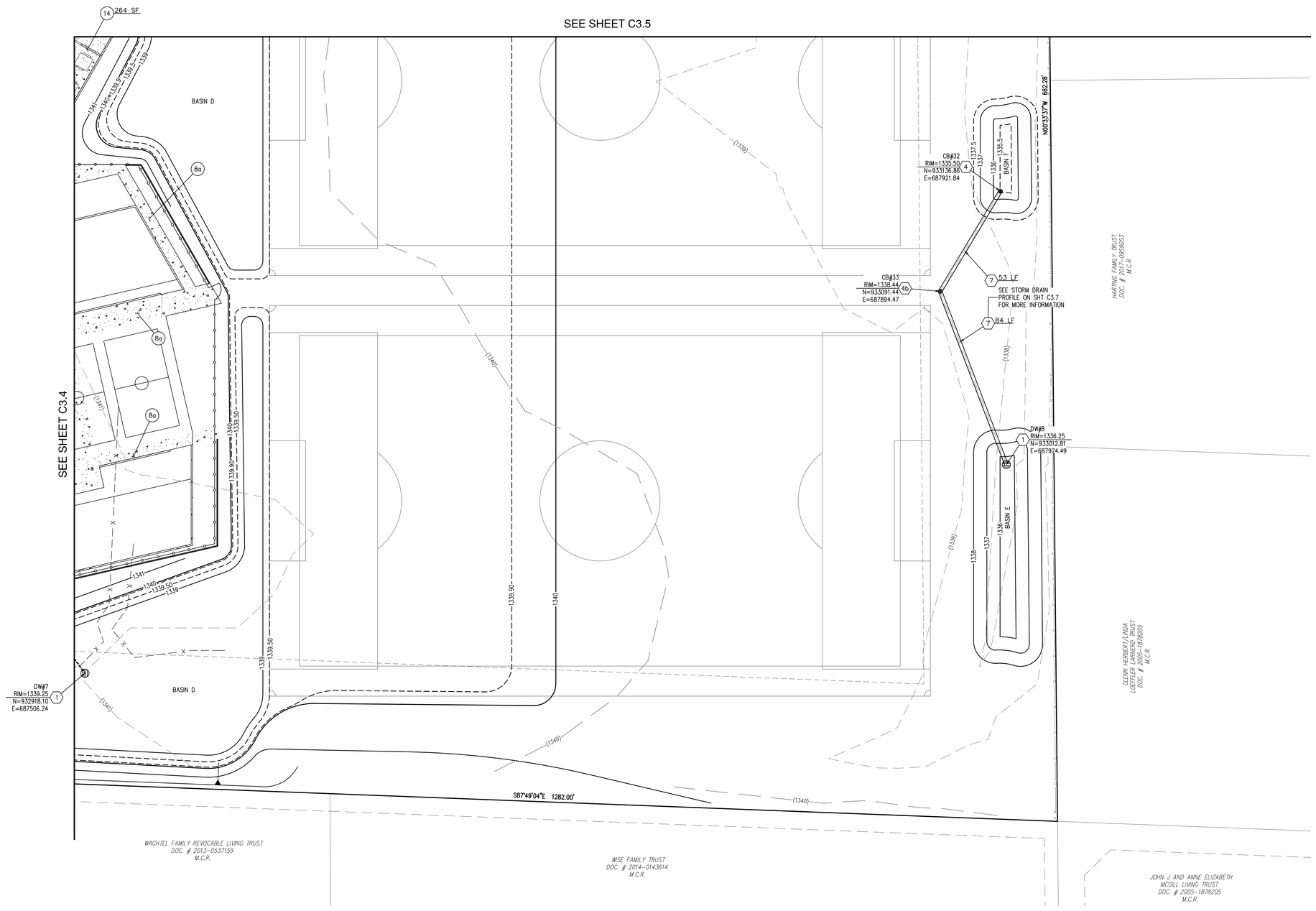
PROJECT NO. 050641-01-001
DATE OF ISSUE 10.10.19
REVISION NO. ⚠
DATE 12.12.19

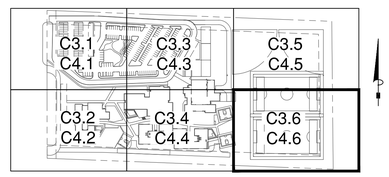
PROJECT TEAM BOWMAN
DRAWN BY LGR
PROJECT PHASE PERMIT SET
SHEET CONTENTS PAVING PLAN

SHEET NO.
C3.5
SHT 09 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C3.5-RPP.DWG

PAVING CONSTRUCTION NOTES
(8a) HARDSCAPE, SEE ARCHITECTURAL PLANS FOR FINISH AND ADDITIONAL INFORMATION
(14) INSTALL 6" CONCRETE PAVEMENT PER SECTION #3 ON SHT C1.2
STORM DRAIN CONSTRUCTION NOTES
(1) INSTALL MAXWELL IV DRYWELL PER DTL ON SHT C4.8
(4) INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" STANDARD H-20 GRATE
(4b) INSTALL 24" NYLOPLAST CATCH BASIN PER DTL ON SHT C4.8 WITH AN 18" SOLID H-20 GRATE
(7) INSTALL 15" HDPE STORM DRAIN PIPE





KEY MAP
N.T.S.

N
20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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Bowman
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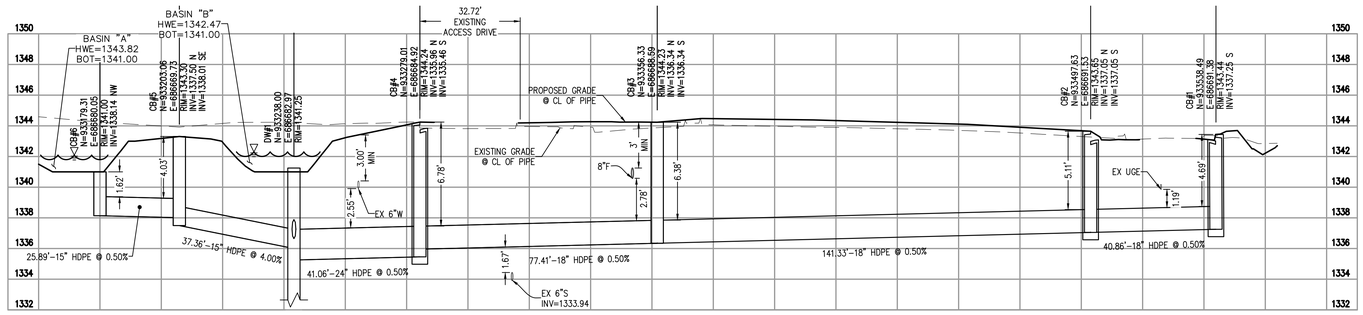
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BOWMAN	LGR

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PERMIT SET

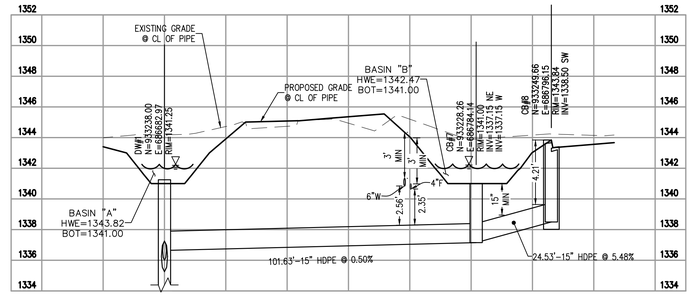
SHEET CONTENTS
PAVING PLAN

SHEET NO.
C3.6
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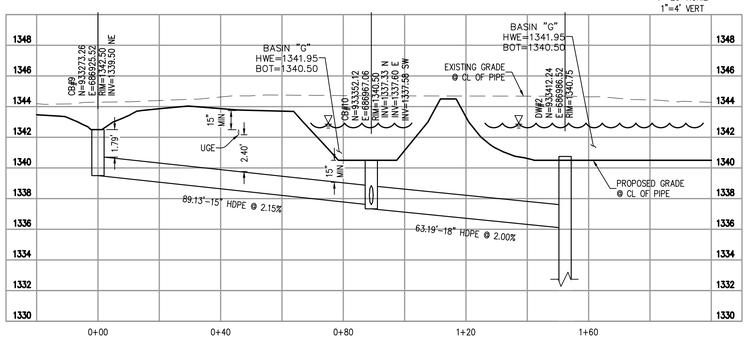


CB#6 - CB#1 STORM DRAIN PROFILE

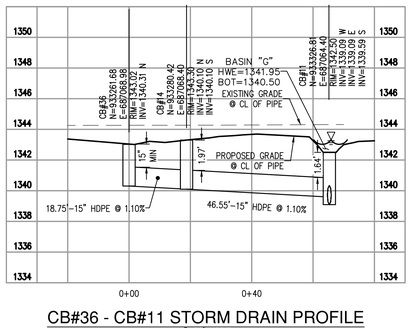


DW#1 - CB#8 STORM DRAIN PROFILE

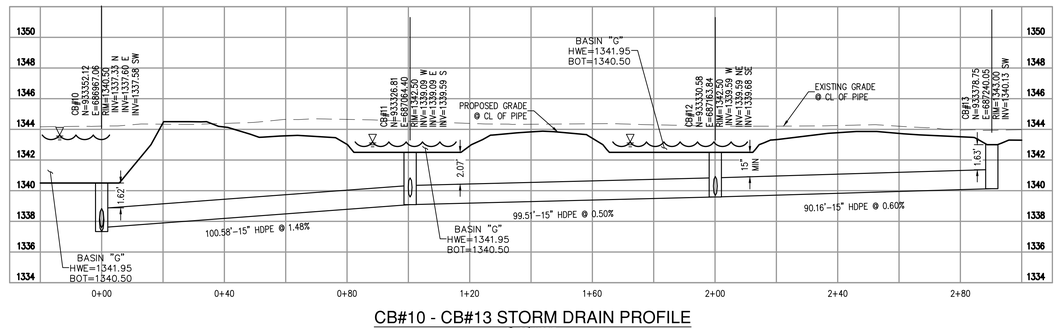
1"=20' HORIZ
1"=4' VERT



CB#9 - DW#2 STORM DRAIN PROFILE

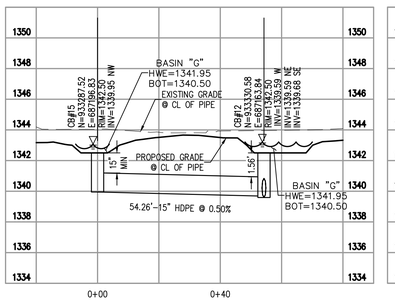


CB#36 - CB#11 STORM DRAIN PROFILE

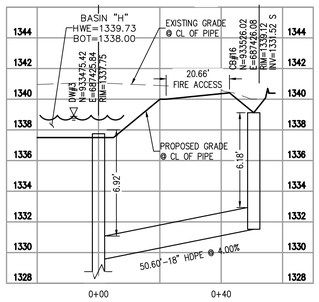


CB#10 - CB#13 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT

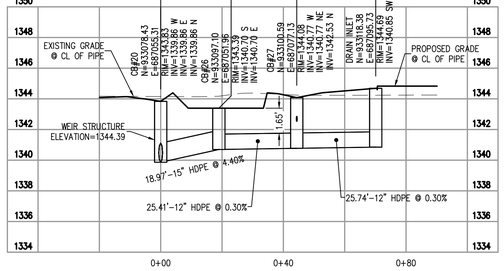


CB#15 - CB#12 STORM DRAIN PROFILE



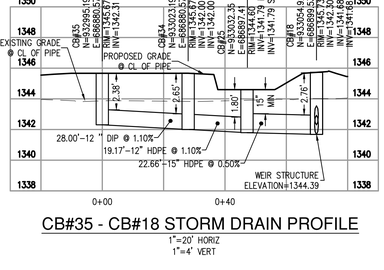
HW#3-CB#16 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



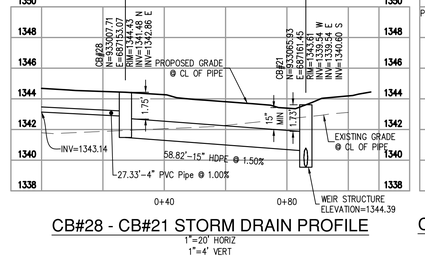
CB#20 - DRAIN INLET STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



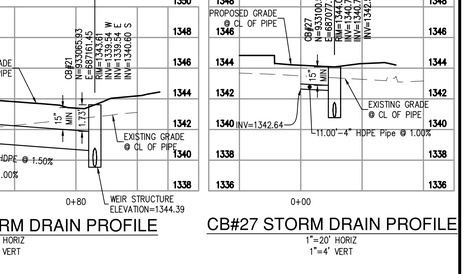
CB#35 - CB#18 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



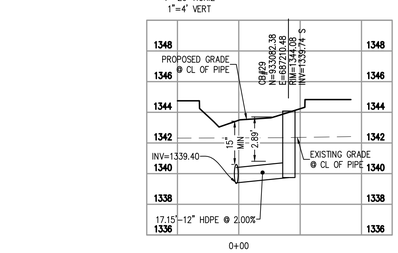
CB#28 - CB#21 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



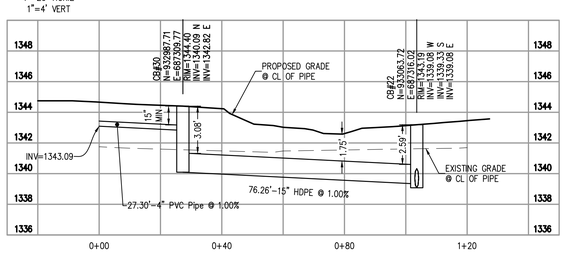
CB#27 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



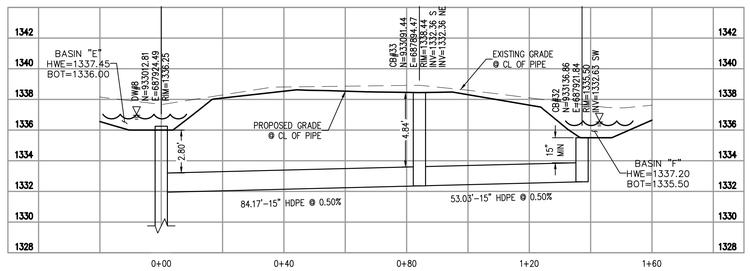
CB#29 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



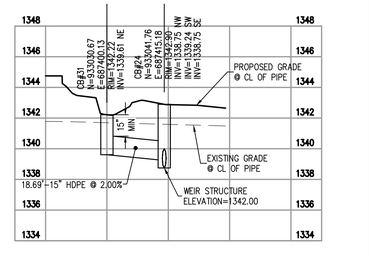
CB#30 - CB#22 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



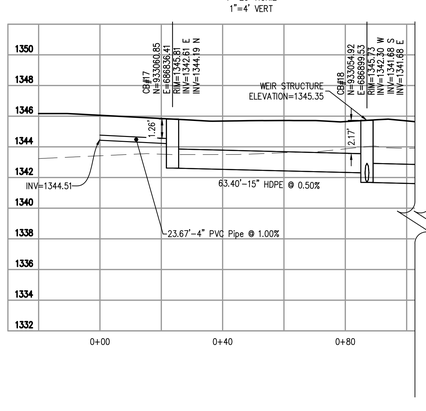
DW#8 - CB#32 STORM DRAIN PROFILE

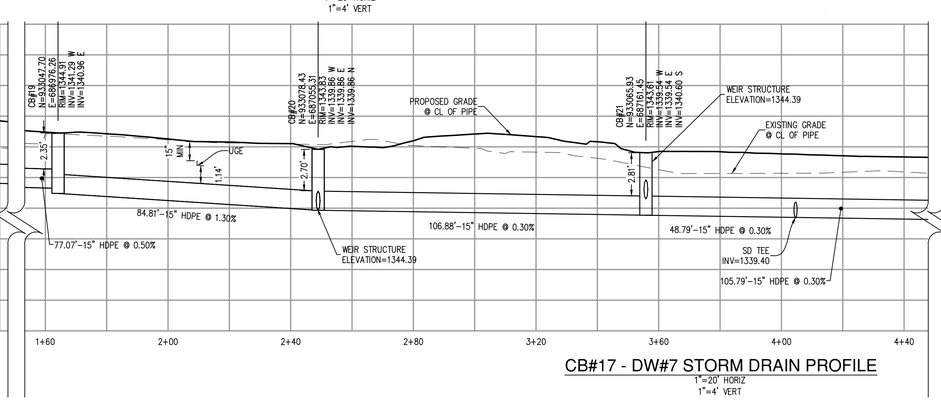
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1"=4' VERT



CB#31 - CB#24 STORM DRAIN PROFILE

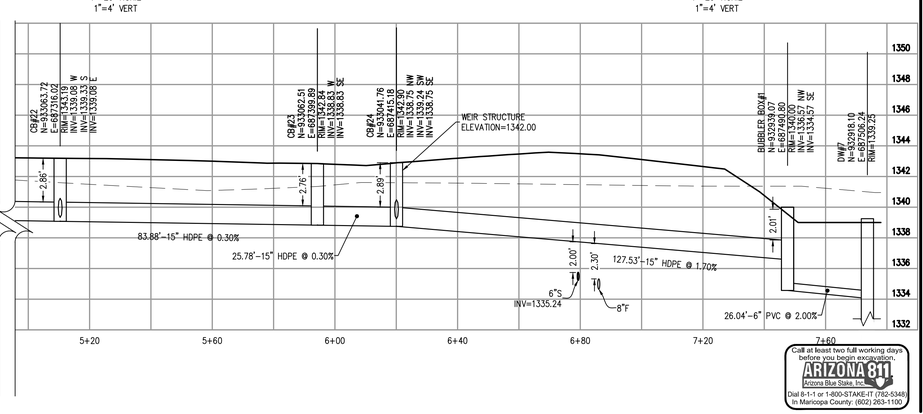
1"=20' HORIZ
1"=4' VERT





CB#17 - DW#7 STORM DRAIN PROFILE

1"=20' HORIZ
1"=4' VERT



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BOWMAN	LGR

PROJECT PHASE
PERMIT SET

SHEET CONTENTS
STORM DRAIN PROFILES

SHEET NO.
C3.7

SHT 11 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C3.7-SDP.DWG

NORTHWEST CORNER
SECTION 33, T3N, R4E
FOUND BRASS CAP
MONUMENT FLUSH
N=934226.30
E=686625.62

JOAN DAWSON DOPP
DOC. # 2011-0421208
M.C.R.

8.00' PUE PER
DOUBLE TREE RANCHOS FINAL PLAT,
BK 120, PG 33, M.C.R.

40.00' DRAINAGE ESMT PER
DOUBLE TREE RANCHOS FINAL PLAT,
BK 120, PG 33, M.C.R.

MICHELLE L SIBILLA
DOC. # 2018-0319128
M.C.R.

S87°47'42"E 1276.05'

S89°57'20"W 664.12'

N00°02'40"W 2650.18'

56TH ST

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BOT=1341.00
Vr=0.06 AC-FT
Vp=0.07 AC-FT

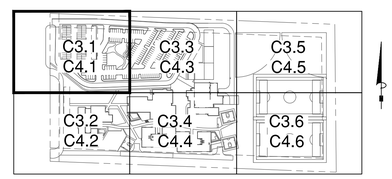
BASIN B
HWE=1342.65
BOT=1341.00
Vr=0.20 AC-FT
Vp=0.26 AC-FT

BASIN G
HWE=1341.86
BOT=1340.50
Vr=0.33 AC-FT
Vp=0.78 AC-FT

SEE SHEET C4.3

SEE SHEET C4.2

ALL WORK WITHIN
ROW REQUIRES A
ROW PERMIT



KEY MAP
N.T.S.

N

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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14	07.15.20
15	10.09.20
17	01.12.21

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BOWMAN	LGR

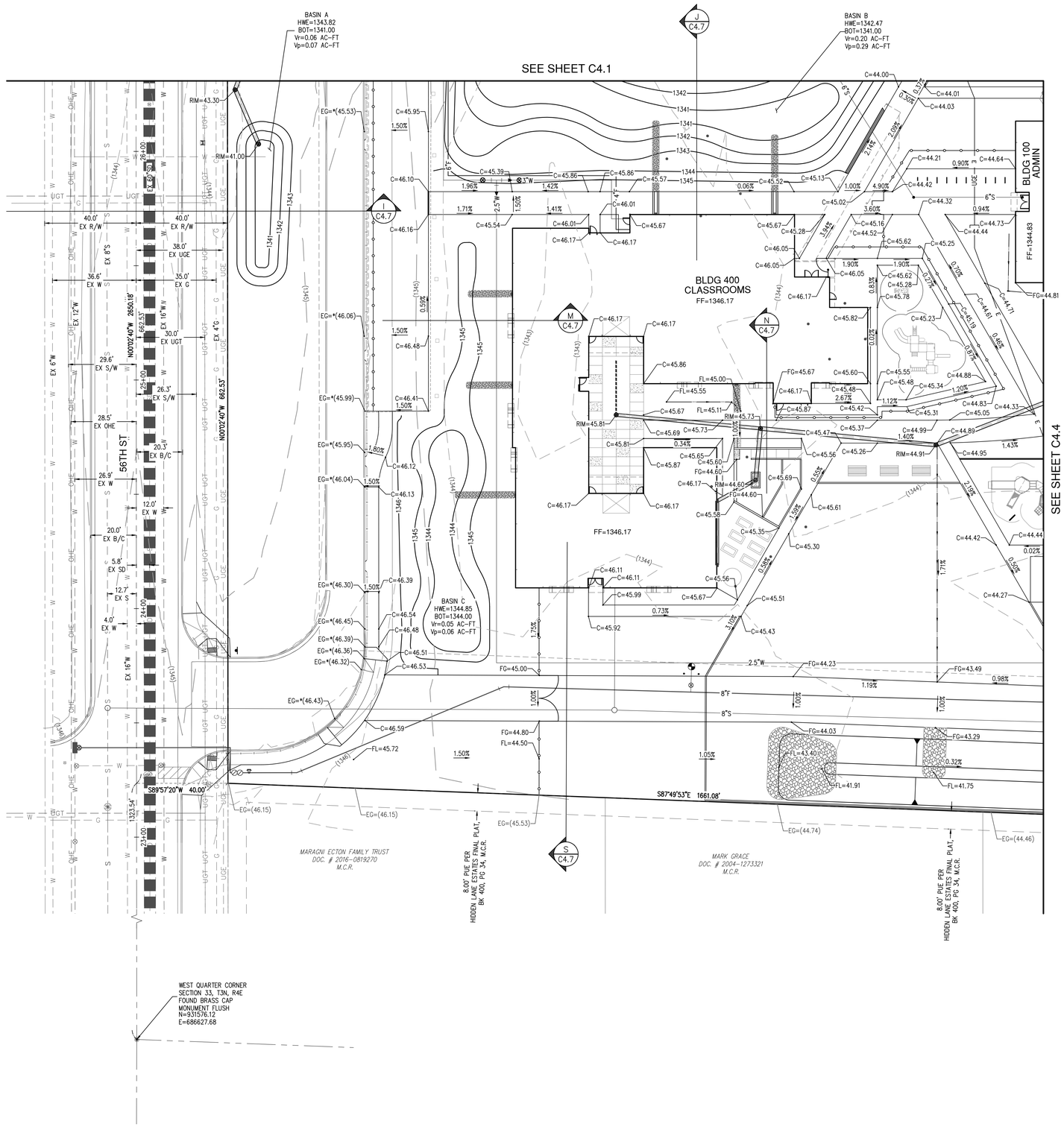
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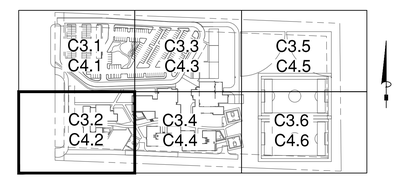
SHEET CONTENTS
GRADING AND DRAINAGE PLAN

SHEET NO.
C4.1

SHT 12 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C4.1-GRP.DWG





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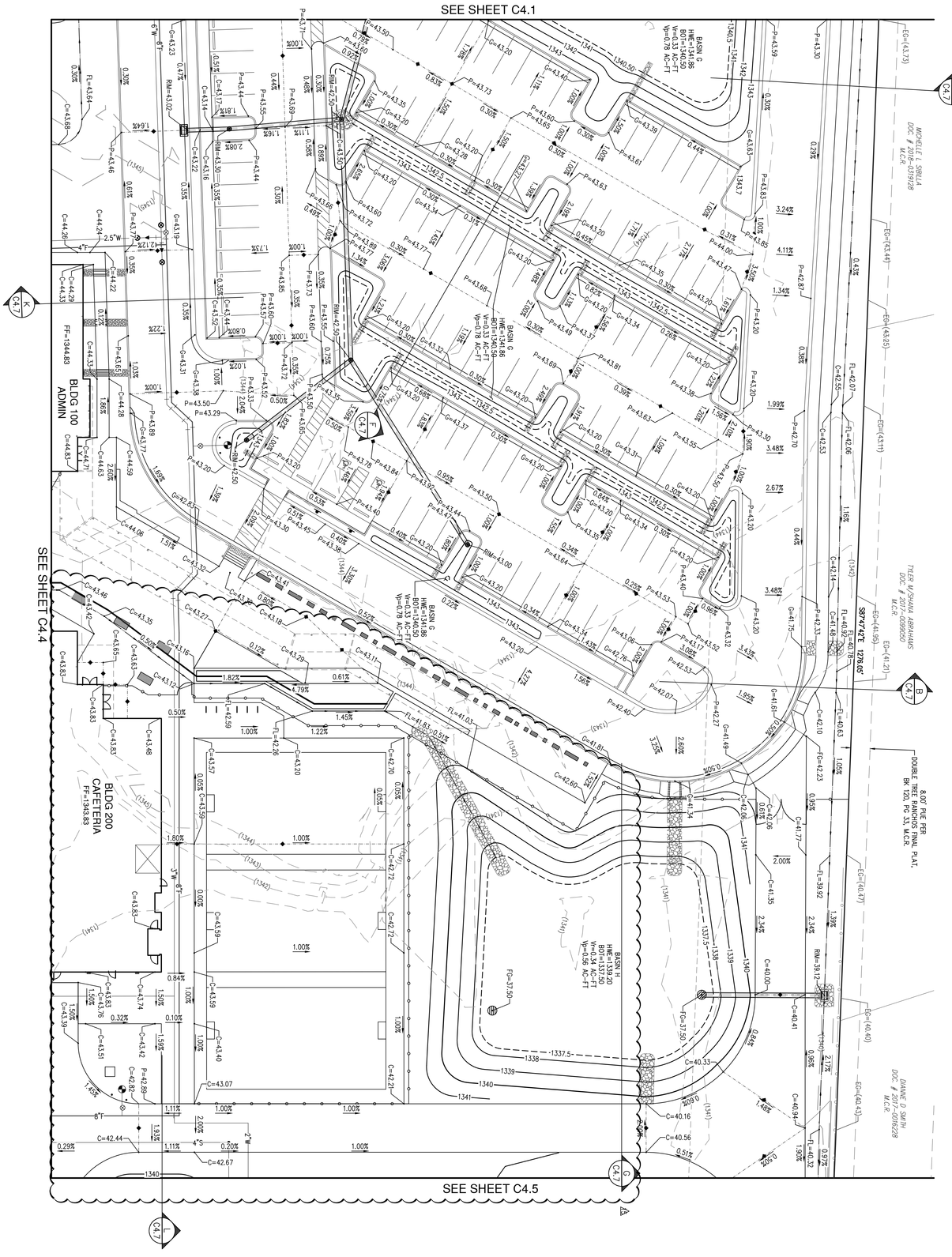
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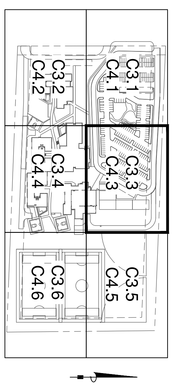
SHEET CONTENTS
GRADING AND DRAINAGE PLAN

SHEET NO.
C4.2

SHT 13 OF 23

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N

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1	12.10.19
2/3	03.25.20
4/5	05.15.20
6	07.15.20
7/8	10.09.20

PROJECT TEAM: BOWMAN
DRAWN BY: LGR

PROJECT PHASE: PERMIT SET

SHEET CONTENTS: GRADING AND DRAINAGE PLAN

SHEET NO. C4.3

SHT 14 OF 23

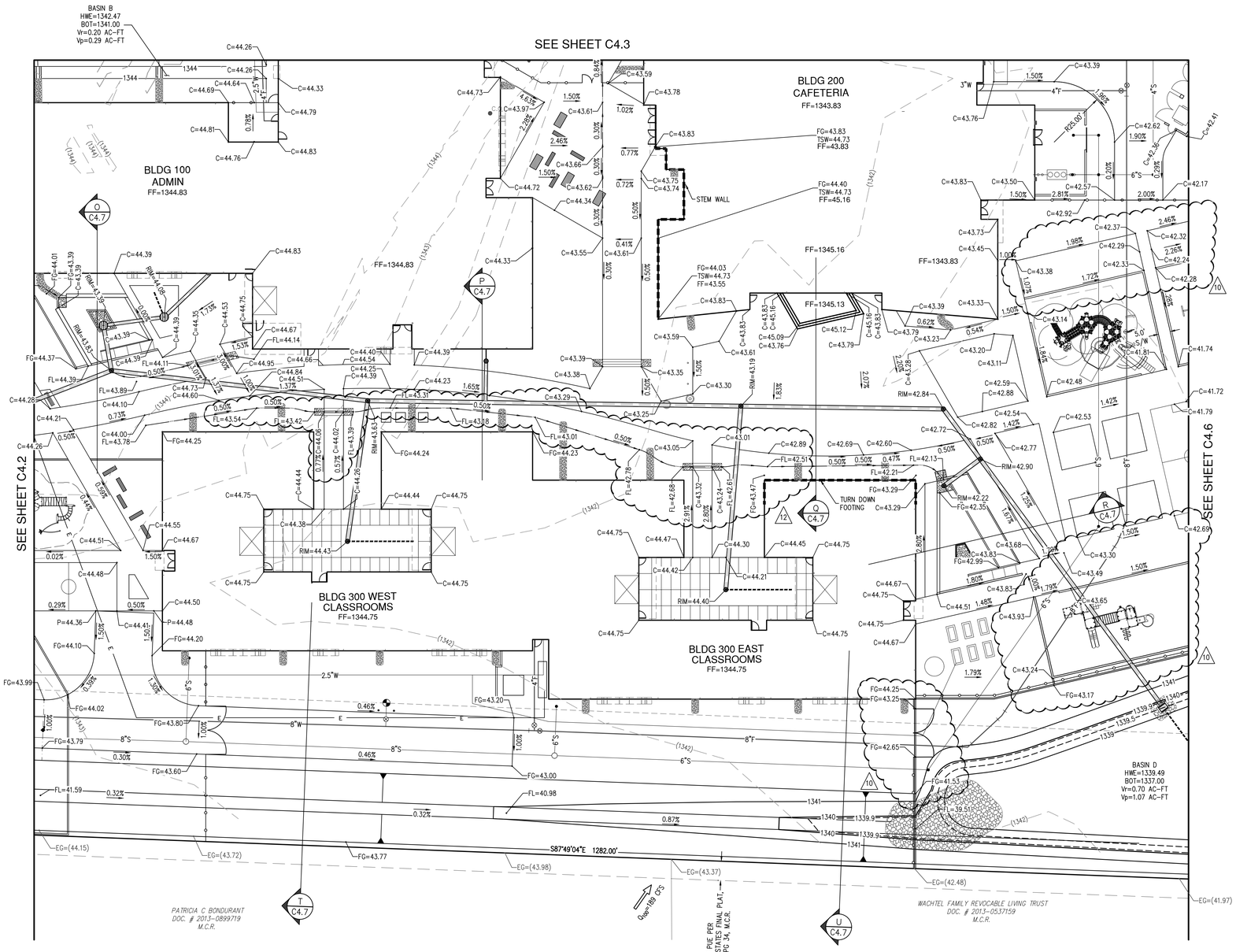
CLIENT CONTACT:
Dr. Daniel E. Rotellini
9298 E. Raintree Dr.
Scottsdale, AZ 85258
480.484.8503

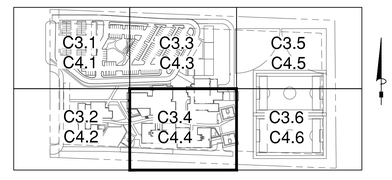
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phoenix, arizona 85012
onsel@owp.com
602.257.1784 t
602.257.0029 f
www.owp.com





KEY MAP
N.T.S.

N

20 10 0 20 40
GRAPHIC SCALE
1" = 20'

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REGISTERED PROFESSIONAL ENGINEER
48621
DAVID
MALDONADO-CAMOU
DATE SIGNED 05.15.20

Scottsdale Unified School District

Cherokee Elementary School Replacement

8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
Dennis Roehler
9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

PROJECT NO.	DATE OF ISSUE
050641-01-001	10.10.19

REVISION NO.	DATE
1	12.10.19
10	03.25.20
12	05.15.20

PROJECT TEAM	DRAWN BY
BOWMAN	LGR

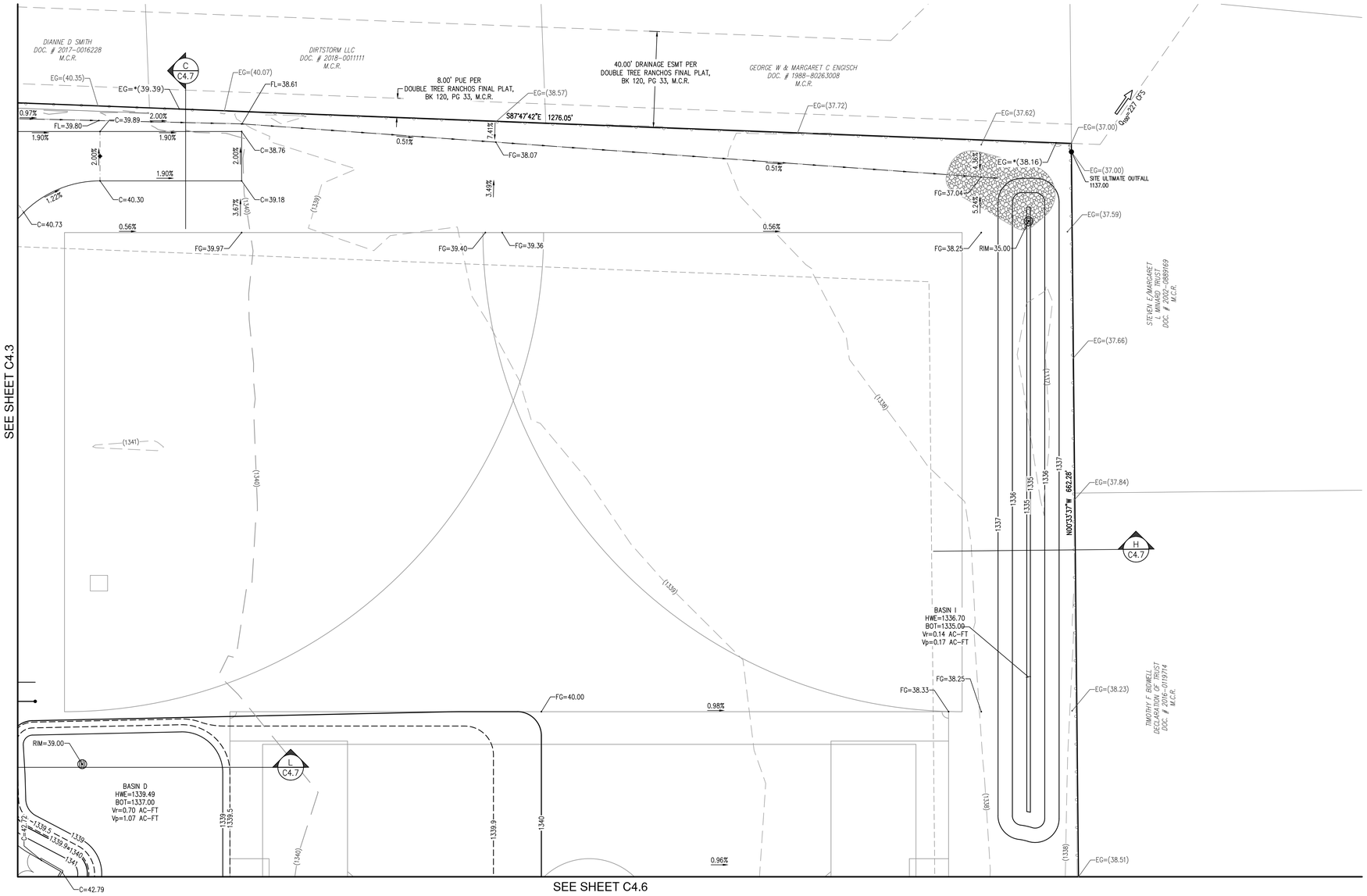
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PERMIT SET

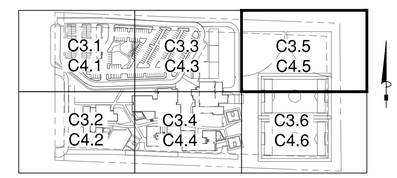
SHEET CONTENTS
GRADING AND DRAINAGE PLAN

SHEET NO.
C4.4

SHT 15 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C4.4-GRP.DWG





KEY MAP
N.T.S.

N

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GRAPHIC SCALE
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REVISION NO.	DATE
⚠	12.10.19

PROJECT TEAM	DRAWN BY
BOWMAN	LGR

PROJECT PHASE
PERMIT SET

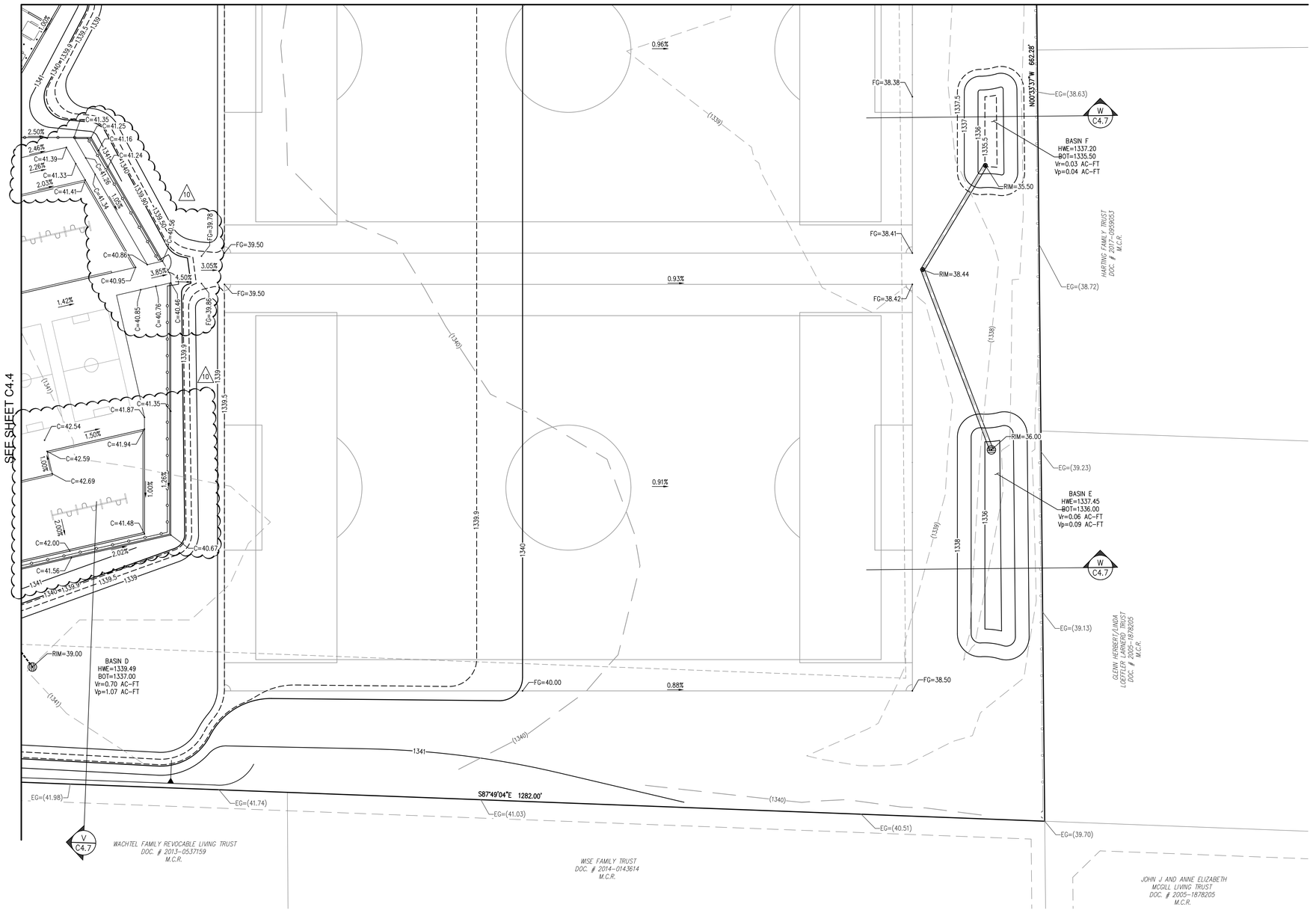
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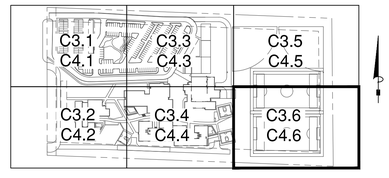
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C4.5

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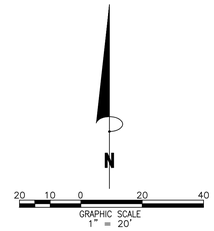
SEE SHEET C4.5

SEE SHEET C4.4





KEY MAP
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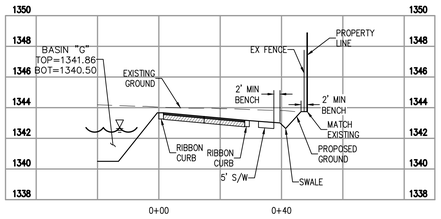
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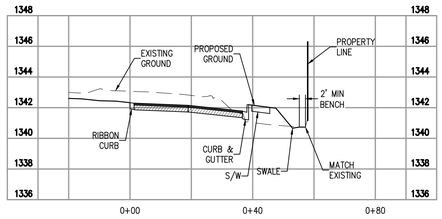
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C4.6

SHT 17 OF 23

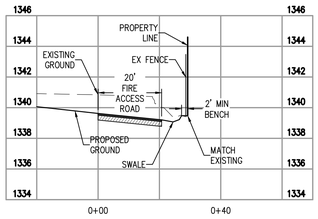
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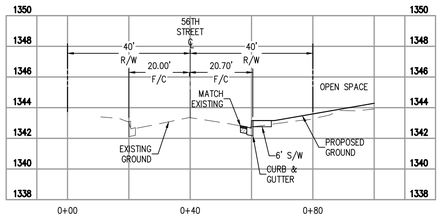
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1"=4' VERT



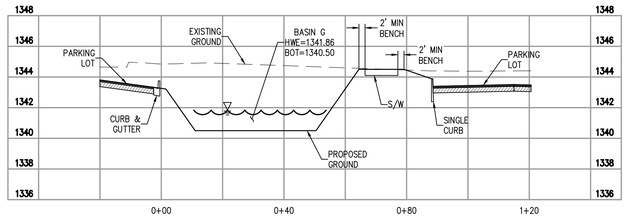
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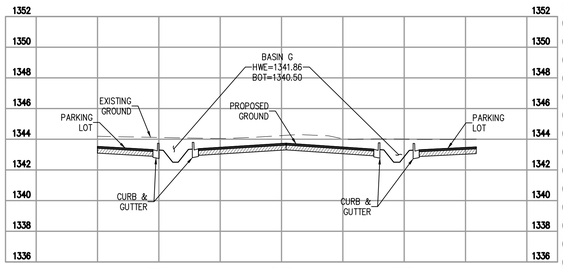
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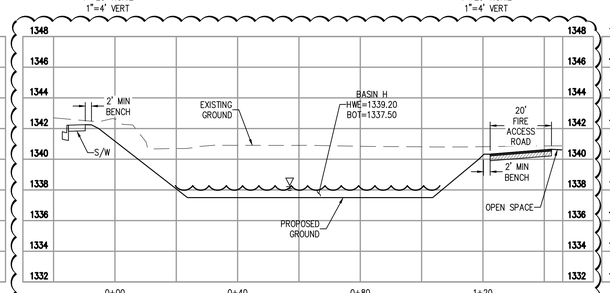
SECTION D
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1"=4' VERT



SECTION E
1"=20' HORIZ
1"=4' VERT

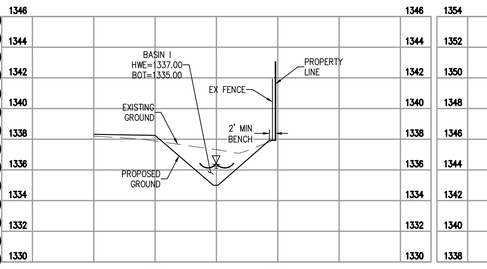


SECTION F
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1"=4' VERT

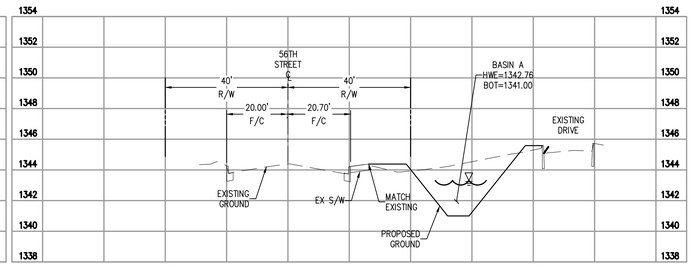


SECTION G
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1"=4' VERT

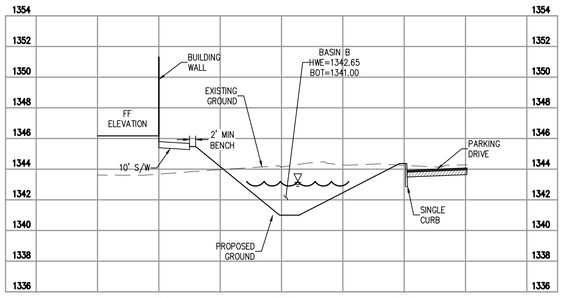
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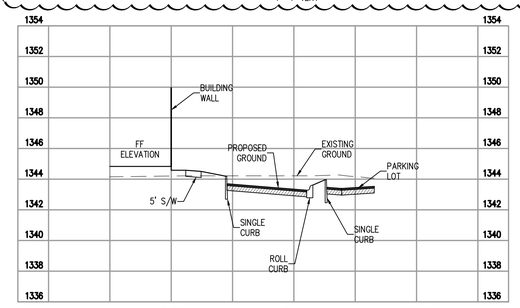
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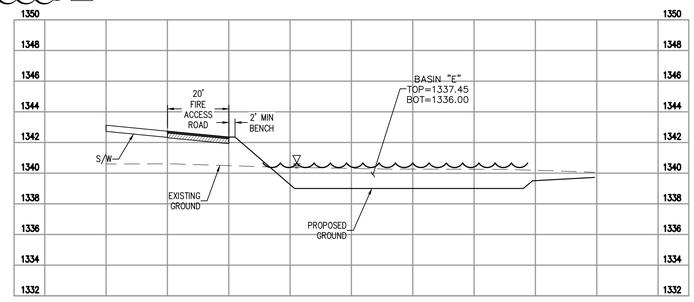
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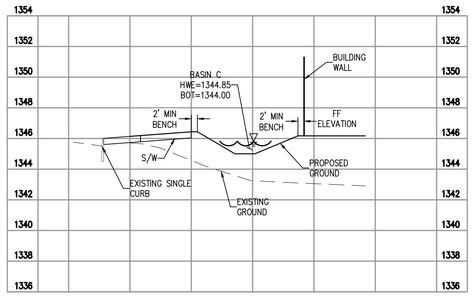
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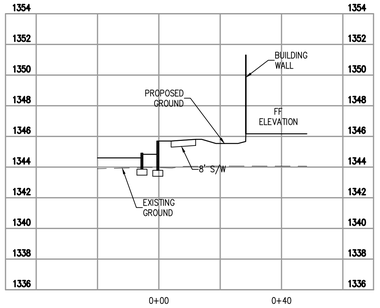
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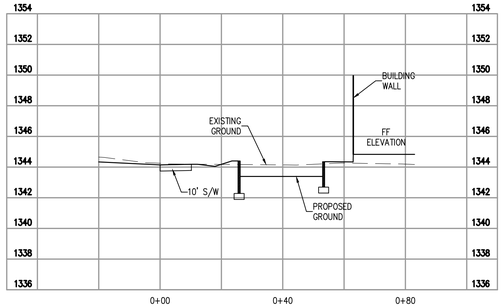
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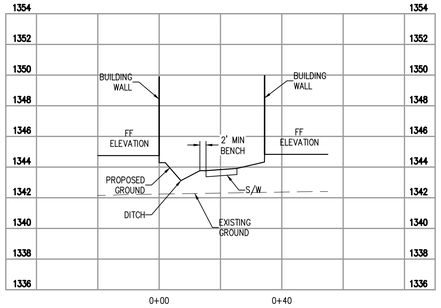
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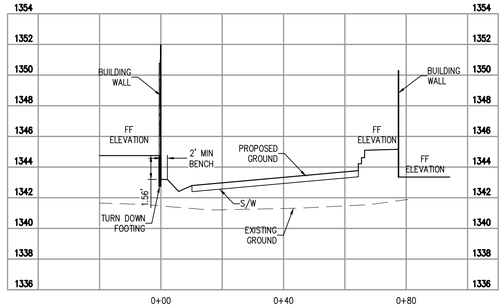
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1"=4' VERT



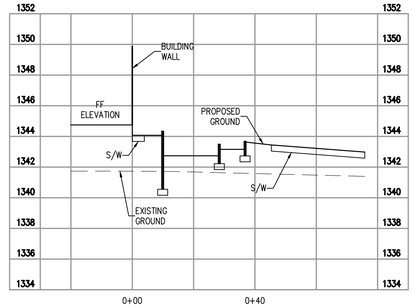
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1"=4' VERT



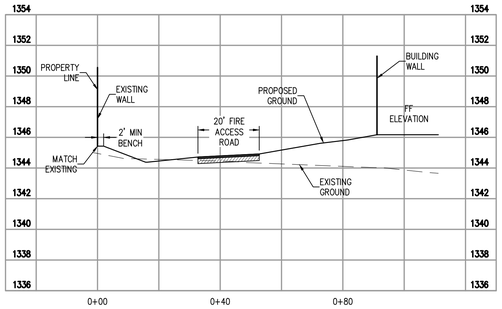
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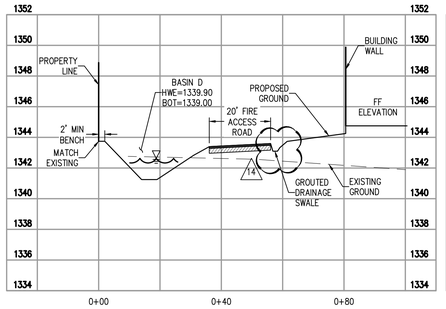
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1"=4' VERT



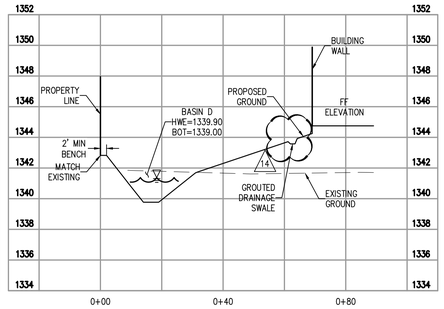
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1"=4' VERT



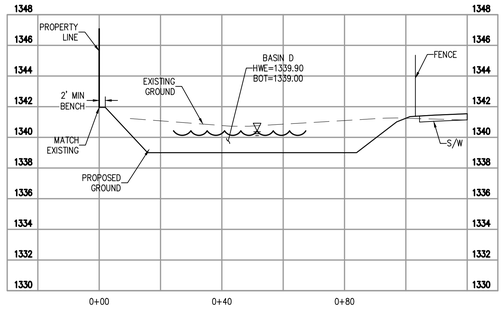
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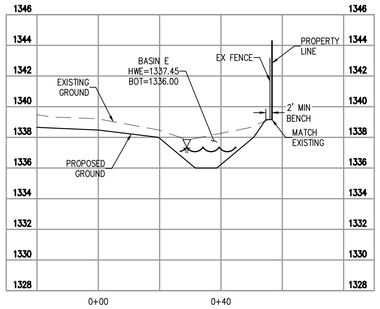
SECTION T
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1"=4' VERT



SECTION U
1"=20' HORIZ
1"=4' VERT



SECTION V
1"=20' HORIZ
1"=4' VERT



SECTION W
1"=20' HORIZ
1"=4' VERT

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ARIZONA
DATE SIGNED 09-29-20

Scottsdale Unified School District
Cherokee Elementary School Replacement
8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
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9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

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PROJECT TEAM	DRAWN BY
BOWMAN	LGR

PROJECT PHASE
PERMIT SET

SHEET CONTENTS
GRADING SECTIONS SHEET

SHEET NO.
C4.7

SHT 18 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C4.7-XSS.DWG

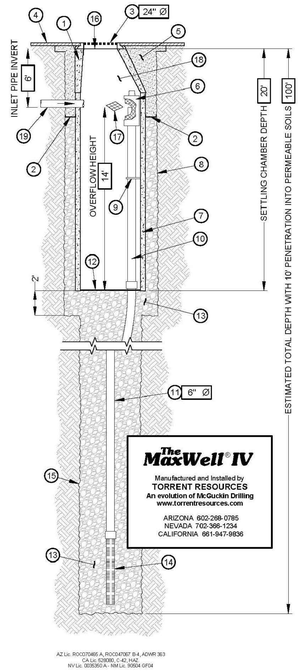
Cherokee Elementary School-Paradise Valley,AZ

The MaxWell® IV Drainage System Detail And Specifications

NOTES

1. **MANHOLE CONE** - MODIFIED FLAT BOTTOM.
2. **MOISTURE MEMBRANE** - 6 MIL PLASTIC. APPLIES 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 16 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** - 4000 PSI CONCRETE 48" ID. X 54" OD. **CENTER IN HOLE** AND ALIGN SECTIONS TO **MAXIMIZE BEARING SURFACE**.
8. **MIN. 6' Ø 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 TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
12. **BASE SEAL** - GEOTEXTILE OR 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 TRI-B COUPLER.
15. **MIN. 4' Ø 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. 128 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).

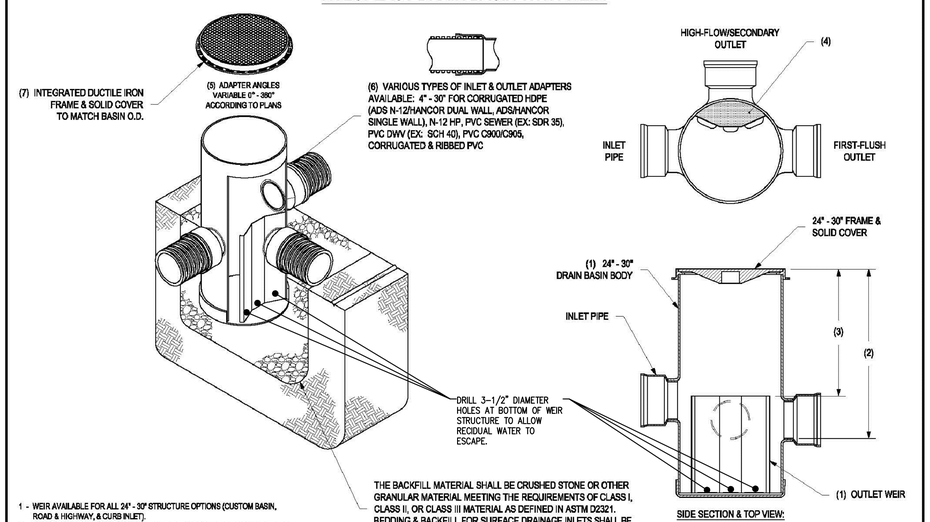
NOTE:
INSTALLING ANY DRYWELL OTHER THAN A MAXWELL REQUIRES A SUBMITTAL FOR THE PROJECT ENGINEER'S APPROVAL



AZ Lic. ROC075985 A, ROC247837 B-8, ADWR 383
CA Lic. 629500 A, C-57, HAZ
NV Lic. 0070302 A - NM Lic. 90604 GF04

U.S. Patent No. 4,923,330 - ™ Trademark 1974, 1990, 2004

NYLOPLAST DRAIN BASIN WITH WEIR



1 - WEIR AVAILABLE FOR ALL 24" - 30" STRUCTURE OPTIONS (CUSTOM BASIN, ROAD & HIGHWAY, & CURB INLET).
2 - DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS SEE DRAWING NO. 7001-110-065.
3 - HEIGHT OF WEIR TO BE DETERMINED BY ENGINEER. **WEIR HEIGHT CANNOT EXCEED 84" DUE TO MANUFACTURING AND SHIPPING RESTRICTIONS.**
4 - WEIR MANUFACTURED TO MINIMIZE LOSS OF OUTLET PIPE OPEN AREA.
5 - ADAPTERS CAN BE MOUNTED ON ANY ANGLE 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6 - DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
7 - FRAMES, GRATES, COVERS, HOODS, & BASE PLATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.

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DRAWN BY	EBC	MATERIAL	
DATE	05-10-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-16-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

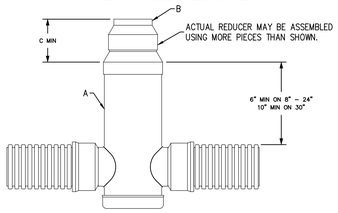
TITLE: DRAIN BASIN WITH WEIR QUICK SPEC INSTALLATION DETAIL

DWG NO. 7004-110-058 REV G

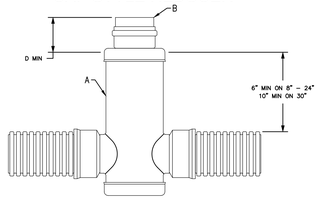
A	B	C	D
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12"	8"	12.00	9.00
12"	10"	6.00	10.00
15"	8"	18.50	9.00
15"	10"	12.50	10.00
15"	12"	6.50	
18"	8"	25.50	9.00
18"	10"	19.50	10.00
18"	12"	13.50	11.50
18"	15"	7.00	
24"	8"	36.50	9.00
24"	10"	30.50	10.00
24"	12"	24.50	11.00
24"	15"	18.00	12.00
24"	18"	11.00	
30"	8"	46.50	9.00
30"	10"	40.50	10.00
30"	12"	34.50	11.50
30"	15"	28.00	12.00
30"	18"	21.00	14.50
30"	24"	13.50	

NOTE: DIMENSIONS ARE FOR REFERENCE ONLY ACTUAL DIMENSIONS MAY VARY

CONE STYLE REDUCER



CAP STYLE REDUCER



NYLOPLAST DWG No 7001-110-104

N.T.S.

NYLOPLAST - ENGINEERED SURFACE DRAINAGE PRODUCTS

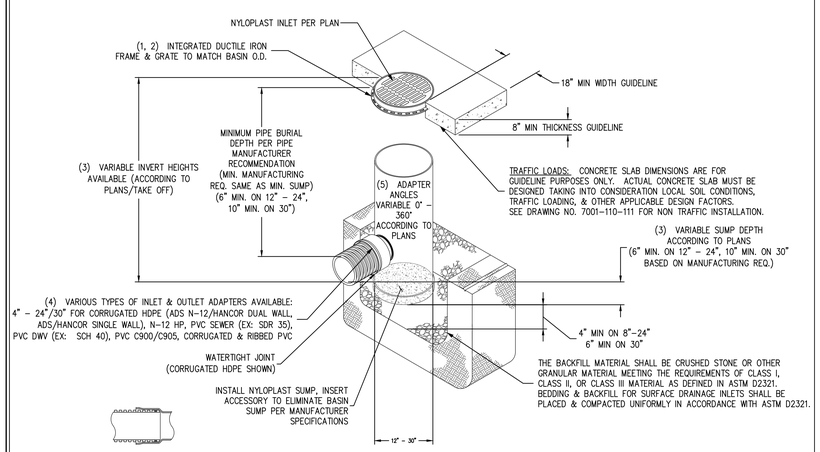
GENERAL
PVC SURFACE DRAINAGE INLETS SHALL INCLUDE THE DRAIN BASIN TYPE AS INDICATED ON THE CONTRACT DRAWING AND REFERENCED WITHIN THE CONTRACT SPECIFICATIONS. THE DUCTILE IRON GRATES FOR EACH OF THESE FITTINGS ARE TO BE CONSIDERED AN INTEGRAL PART OF THE SURFACE DRAINAGE INLET AND SHALL BE FURNISHED BY THE SAME MANUFACTURER. THE SURFACE DRAINAGE INLETS SHALL BE AS MANUFACTURED BY NYLOPLAST A DIVISION OF ADVANCED DRAINAGE SYSTEMS, INC.,OR PRIOR APPROVED EQUAL.

MATERIALS
THE DRAIN BASINS REQUIRED FOR THIS CONTRACT SHALL BE MANUDACTURED FROM PVC PIPE STOCK, UTILIZING A THERMOFORMING PROCESS TO REFORM THE PIPE STOCK TO THE SPECIFIED CONFIGURATION. THE DRAINAGE PIPE CONNECTION STUBS SHALL BE MANUFACTURED FROM PVC PIPE STOCK AND DROMED TO PROVIDE A WATERTIGHT CONNECTION WITH THE SPECIFIED PIPE SYSTEM. THIS JOINT TIGHTNESS SHALL CONFORM TO ASTM F477, THE PIPE BELL SPIGOT SHALL BE JOINED TO THE MAIN BODT OF THE DRAIN BASIN OR CATCH BASIN. THE RAW MATERIAL USED TO MANUFACTURE THE PIPE STOCK THAT IS USED TO MANUFACTURE THE MAIN BODY AND PIPE STUBS OF THE SURFACE DRAINAGE INLETS SHALL CONFORM TO ASTM D1784 CELL CLASS 12454.

THE GRATES AND FRAMES FURNISHED FOR ALL SURFACE DRAINAGE INLETS SHALL BE DUCTILE IRON FOR SIZES 8", 10", 12", 15", 18", 24" AND 30" AND SHALL BE MADE SPECIFICALLY FOR EACH BASIN SO AS TO PROVIDE A ROUND BOTTOM FLANGE THAT CLOSELY MATCHES THE DIAMETER OF THE SURFACE DRAINAGE INLET. GRATES FOR DRAIN BASINS SHALL BE CAPABLE OF SUPPORTING VARIOUS WHEEL LOADS AS SPECIFIED BY NYLOPLAST. 12" AND 15" SQUARE GRATES WILL BE HINGED TO THE FRAME USING PINS. DUCTILE IRON USED IN THE MANUFACTURE OF THE CASTINGS SHALL CONFORM TO ASTM A536 GRATE 70-50-05, GRATES AND COVERS SHALL BE PROVIDED PAINTED BLACK.

INSTALLATION
THE ESPECIFIED PVC SURFACE DRAINAGE INLET SHALL BE INSTALLED USING CONVENTIONAL FLEXIBLE PIPE BACKFILL MATERIALS AND PROCEDURES. THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS 2, OR CLASS 3 MATERIAL AS DEFINED IN ASTM D 2321. BEDDING AND BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE WELL PLACED AND COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321. THE DRAIN BASIN BODY WILL BE CUT AT THE TIME OF THE FINAL GRADE. NO BRICK, STONE OR CONCRETE BLOCK WILL BE REQUIRED TO SET THE GRATE TO THE FINAL GRADE HEIGHT. FOR LOAD RETED INSTALLATIONS, A CONCRETE SLAB SHALL BE POURED UNDER AND AROUND THE GRATE AND FRAME. THE CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, AND OTHER APPLICABLE DESIGN FACTORS. FOR OTHER INSTALLATION CONSIDERATIONS SUCH AS MIGRATION OF FINES, GROUND WATER, AND SOFT FOUNDATIONS REFER TO ASTM D2321 GUIDELINES.

NYLOPLAST 24"/30" DRAIN BASIN



1. 12" - 30" PEDESTRIAN GRATES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
2. 12" - 30" FRAMES SHALL BE DUCTILE IRON PER ASTM A536 GRADE 70-50-05.
3. DRAIN BASIN TO BE CUSTOM MANUFACTURED ACCORDING TO PLAN DETAILS. RISERS ARE NEEDED FOR BASINS OVER 84" DUE TO SHIPPING RESTRICTIONS. SEE DRAWING NO. 7001-110-065.
4. DRAINAGE CONNECTION STUB JOINT TIGHTNESS SHALL CONFORM TO ASTM D3212 FOR CORRUGATED HDPE (ADS N-12/HANCOR DUAL WALL), N-12 HP, & PVC SEWER (4" - 24").
5. ADAPTERS CAN BE MOUNTED 0° TO 360°. TO DETERMINE MINIMUM ANGLE BETWEEN ADAPTERS SEE DRAWING NO. 7001-110-012.
6. 12" - 24" PEDESTRIAN GRATES SHALL MEET H-10 LOAD RATING. 30" PEDESTRIAN GRATE SHALL MEET H-20 LOAD RATING (SEE DRAWING NO. 7001-110-144 FOR H-20 TRAFFIC LOAD GUIDELINES).

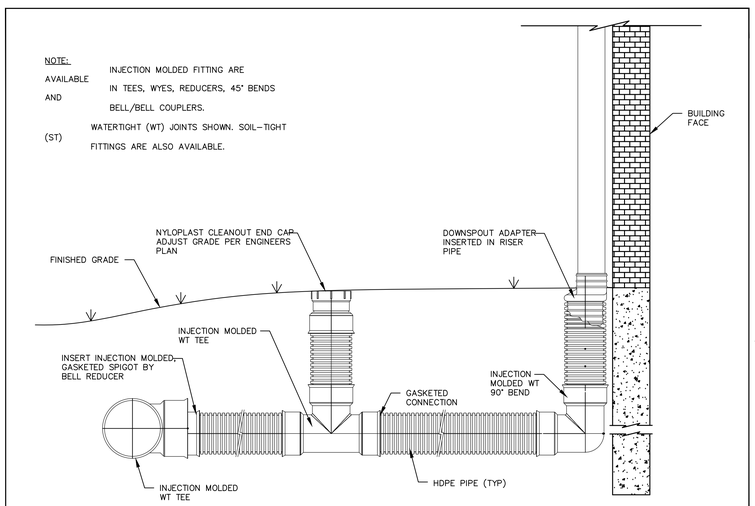
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DRAWN BY	EBC	MATERIAL	
DATE	04-03-06		
REVISED BY	NMH	PROJECT NO./NAME	
DATE	03-14-16		
DWG SIZE	A	SCALE 1:40	SHEET 1 OF 1

Nyloplast — 3130 VERONA AVE BUFORD, GA 30518 PHN (770) 932-2443 FAX (770) 932-2490 www.nyloplast-us.com

TITLE: 24 IN DRAIN BASIN QUICK SPEC INSTALLATION DETAIL

DWG NO. 7001-110-192 REV E



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ADVANCED DRAINAGE SYSTEMS, INC. ("ADS") HAS PREPARED THIS DETAIL BASED ON INFORMATION PROVIDED TO ADS. THIS DRAWING IS INTENDED TO DEPICT THE COMPONENTS AS REQUESTED. ADS HAS NOT PERFORMED ANY ENGINEERING OR DESIGN SERVICES FOR THIS PROJECT. NOR HAS ADS INDEPENDENTLY VERIFIED THE INFORMATION SUPPLIED. THE INSTALLATION DETAILS PROVIDED HEREIN ARE GENERAL RECOMMENDATIONS AND ARE NOT SPECIFIC FOR THIS PROJECT. THE DESIGN ENGINEER SHALL REVIEW THESE DETAILS PRIOR TO CONSTRUCTION. IT IS THE DESIGN ENGINEERS RESPONSIBILITY TO ENSURE THE DETAILS PROVIDED HEREIN MEETS OR EXCEEDS THE APPLICABLE NATIONAL, STATE, OR LOCAL REQUIREMENTS AND TO ENSURE THAT THE DETAILS PROVIDED HEREIN ARE ACCEPTABLE FOR THIS PROJECT.

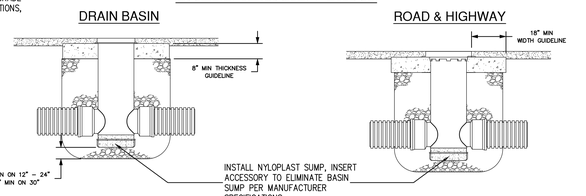
REV.	DESCRIPTION	BY	MM/DD/YY	CHK'D
2	FORMATTING UPDATES AND RENAMED	TJR	03/07/16	

ROOF DRAIN (TEE CLEANOUT)
DRAWING NUMBER: STD-1002

ADS — 4640 TRUEMAN BLVD. HILLIARD, OHIO 43026 — ADVANCED DRAINAGE SYSTEMS, INC.

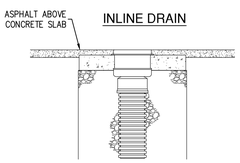
DRAWN BY	KSK
DATE	03.19.04
SCALE	NTS
SHEET	1 OF 1

ASPHALT INSTALLATION



ASPHALT ABOVE CONCRETE SLAB

INLINE DRAIN



STRUCTURE SIZE		H-20 GRATE OPTIONS				
12"	N/A	STANDARD	SOLID	2X2 R&H	N/A
15"	N/A	STANDARD	SOLID	2X2 R&H	N/A
18"	N/A	STANDARD	SOLID	2X2 R&H	2X3 R&H
24"	N/A	STANDARD	SOLID	2X2 R&H	2X3 R&H
30"	PEDESTRIAN	STANDARD	SOLID	2X2 R&H	2X3 R&H

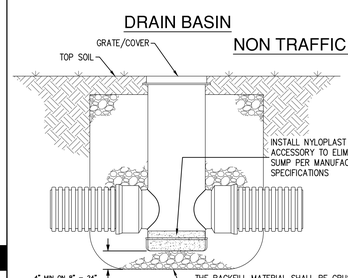
1 - THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS I, CLASS II, OR CLASS III MATERIAL AS DEFINED IN ASTM D2321. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.
2 - TRAFFIC LOADS: CONCRETE SLAB DIMENSIONS ARE FOR GUIDELINE PURPOSES ONLY. ACTUAL CONCRETE SLAB MUST BE DESIGNED TAKING INTO CONSIDERATION LOCAL SOIL CONDITIONS, TRAFFIC LOADING, & OTHER APPLICABLE DESIGN FACTORS.

NYLOPLAST DWG No 7001-110-188

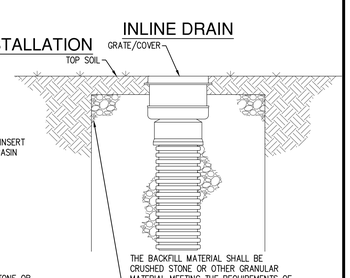
N.T.S.

NON TRAFFIC INSTALLATION

DRAIN BASIN



INLINE DRAIN



NYLOPLAST DWG No 7001-110-111

N.T.S.

orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
oneil.t@owp.com
602.257.1764 t
602.257.9029 f
www.owp.com

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Bowman Consulting Group, Ltd.
1295 West Washington, Suite 108
Tempe, Arizona 85281
Phone (480) 629-8830
www.bowmanconsulting.com
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REGISTERED PROFESSIONAL ENGINEER — CERTIFICATE NO. 48621 — DAVID MALDONADO-CAMOU — ARIZONA — 05-31-19

Scottsdale Unified School District

Cherokee Elementary School Replacement

8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
Dennis Roehler
9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

PROJECT NO.	DATE OF ISSUE
050641-01-001	10.10.19
REVISION NO.	DATE
⚠	12.10.19

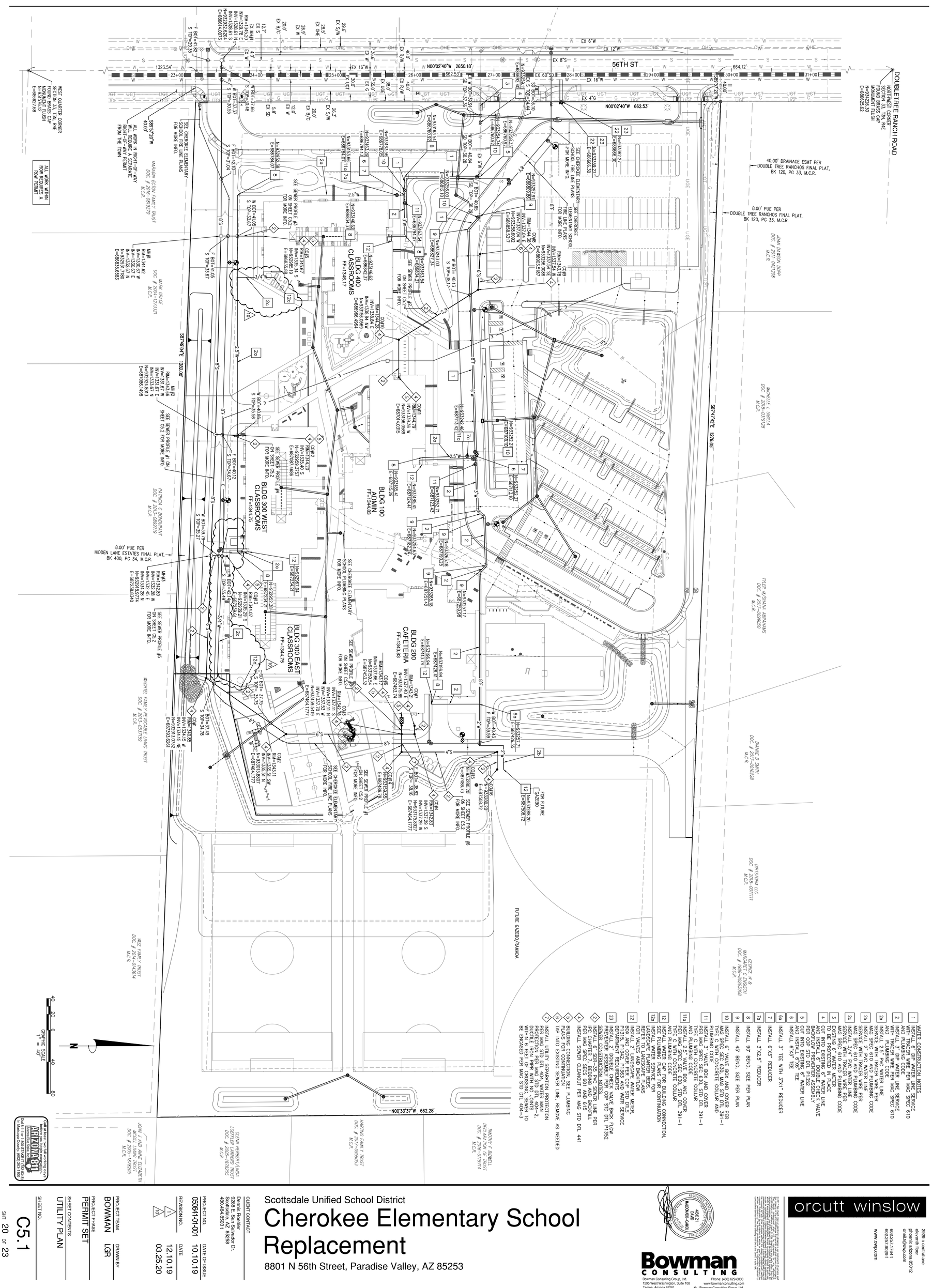
PROJECT TEAM: BOWMAN
DRAWN BY: LGR

PROJECT PHASE: PERMIT SET

SHEET CONTENTS: GRADING DETAILS SHEET

SHEET NO.
C4.8
SHT 19 OF 23

P:\050641 – CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C5.1-UTP.DWG



1. WATER CONSTRUCTION NOTES
1. INSTALL 8" C900 DR18 WATER SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE
2. INSTALL 6" WATER LINE SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE
2a. INSTALL 2.5" PVC WATER LINE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE
2b. INSTALL 2" PVC WATER LINE SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE
2c. INSTALL 3/4" PVC WATER LINE SERVICE WITH TRACER WIRE PER MAG SPEC 610 AND PLUMBING CODE
3. INSTALL 8"x8"x6" TEE
3. CUT INTO EXISTING 6" WATER LINE TO BE PROTECTED IN PLACE
4. INSTALL 6" DOUBLE CHECK VALVE BACKFLOW PREVENTER ASSEMBLY PER COP STD DTL P1352
5. CUT INTO EXISTING 6" WATER LINE
6. INSTALL 6"x3" TEE
6a. INSTALL 3" TEE WITH 3"x1" REDUCER
7. INSTALL 6"x3" REDUCER
7a. INSTALL 3"x2.5" REDUCER
8. INSTALL 90° BEND, SIZE PER PLAN
9. INSTALL 45° BEND, SIZE PER PLAN
10. INSTALL 6" VALVE BOX AND COVER PER MAG SPEC SEC 630, MAG STD DTL 391-1 WITH CONCRETE COLLAR AND PLUMBING CODE
11. INSTALL 3" VALVE BOX AND COVER PER MAG SPEC SEC 630, STD DTL 391-1 AND PLUMBING CODE
11a. INSTALL 2.5" VALVE BOX AND COVER PER MAG SPEC SEC 630, STD DTL 391-1 AND PLUMBING CODE
12. INSTALL WATER CAP FOR BUILDING CONNECTION. TYPE WITH CONCRETE COLLAR
12a. INSTALL WATER SERVICE FOR LANDSCAPE PLANTER BEDS. REFER TO LANDSCAPE PLANS
22. INSTALL 2" LANDSCAPE WATER METER BOX AND COVER PER COP STD DTLS
23. INSTALL 2" DOUBLE CHECK VALVE BACK FLOW PREVENTER ASSEMBLY PER COP STD DTL P1352
1. SEWER CONSTRUCTION NOTES
1. INSTALL 8" SEWER LINE PER MAG SPEC SECS 601 AND 615
2. INSTALL SEWER CLEANOUT PER MAG STD DTL 441
3. BUILDING CONNECTION, SEE PLUMBING PLANS FOR CONTINUATION
4. TAP INTO EXISTING SEWER LINE. REMOVE AS NEEDED
5. INSTALL UTILITY SEPARATION PROTECTION PER MAG STD DTL 404, WATER MAIN CROSSING OVER SEWER MAIN, CLASS 2, DUCTILE IRON PIPE WITH NO JOINTS WITHIN 6 FEET OF CROSSING, SEWER TO BE ENCASED PER MAG STD DTL 404-3

Call at least two full working days before you begin excavation. Arizona Blue Stake, Inc. 602.263.1100 Dial 811 or 1.800.782.5348 In Maricopa County (602) 263-1100
ARIZONA811

Scottsdale Unified School District

Cherokee Elementary School Replacement

8801 N 56th Street, Paradise Valley, AZ 85253

Bowman CONSULTING
Bowman Consulting Group, Ltd.
1295 West Washington, Suite 108
Tempe, Arizona 85281
Phone: (480) 629-8830
www.bowmanconsulting.com
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orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
orwil.lg@owp.com
602.257.1764 t
602.257.9020 f
www.owp.com

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CLIENT CONTACT
Dr. Lisa Roehler, Superintendent
10299 E. Sheridan Dr.
Scottsdale, AZ 85258
480.484.8503 t

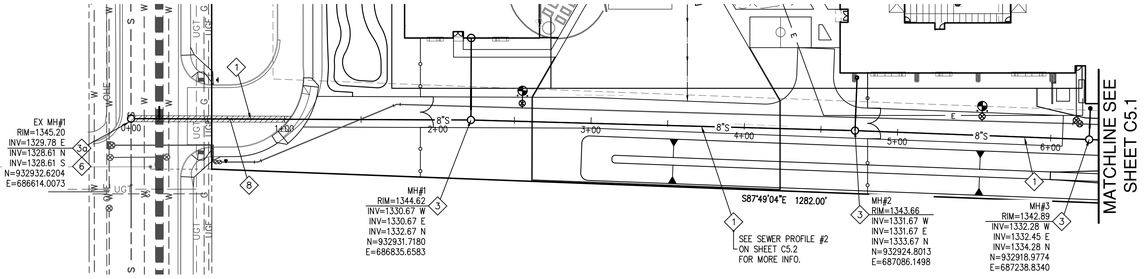
PROJECT NO.	050641-01-001
DATE OF ISSUE	10.10.19
REVISION NO.	1 12.10.19 2 03.25.20

PROJECT TEAM
BOWMAN — DRAWN BY: LGR

PROJECT PHASE
PERMIT SET

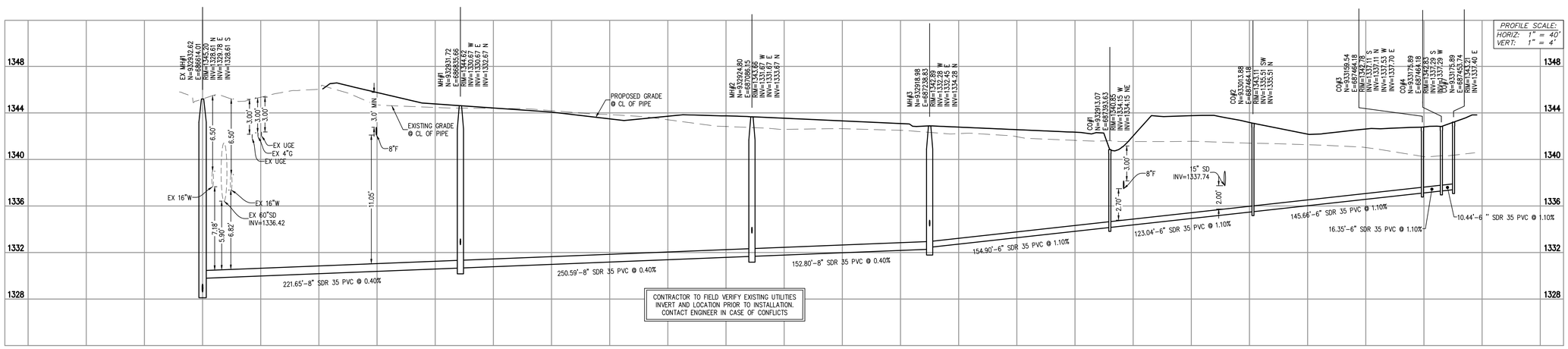
SHEET CONTENTS
UTILITY PLAN

SHEET NO.
C5.1
SHT 20 OF 23

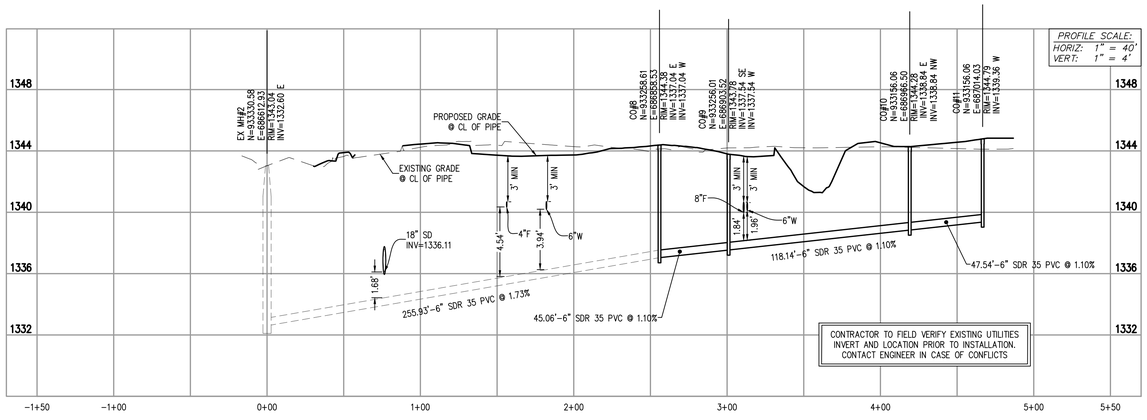


SEWER CONSTRUCTION NOTES

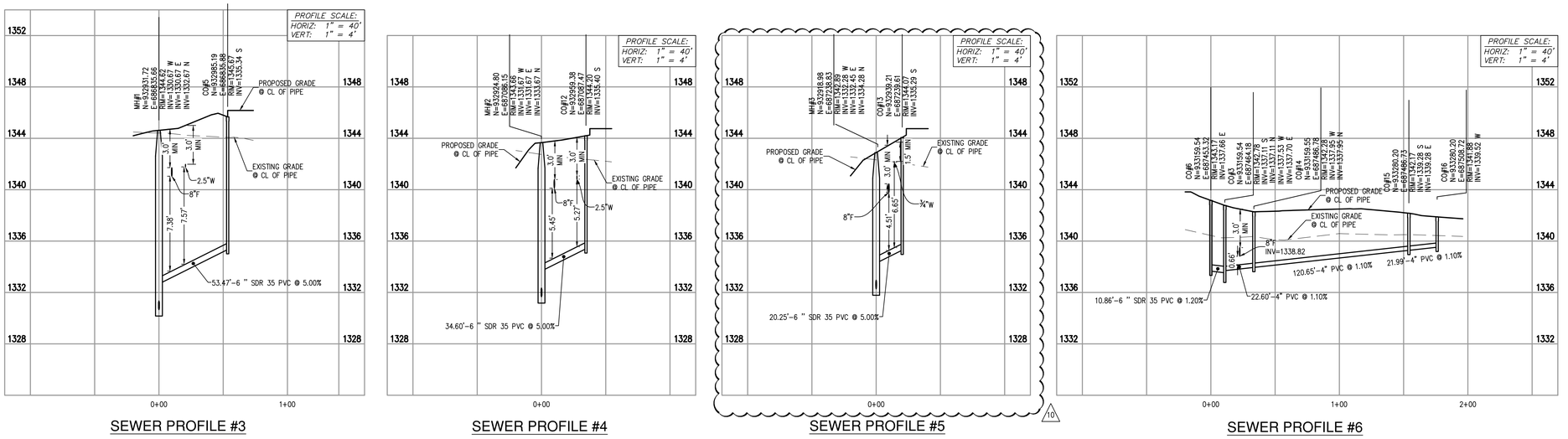
1. INSTALL 8" SDR-35 PVC SEWER LINE, BEDDING AND BACKFILL PER MAG SPEC SECS 601 AND 615
3. INSTALL 5' DIA PRE-CAST CONCRETE MANHOLE PER MAG STD DTL 420-1, 420-2 AND 420-3 WITH A 30" FRAME AND COVER PER MAG STD DTL 424
3a. INSTALL 5' DIA PRE-CAST CONCRETE MANHOLE PER MAG STD DTL 420-1, 420-2 AND 420-3 WITH A 30" FRAME AND COVER PER MAG STD DTL 424, BLACK CONCRETE COLLAR REQUIRED
6. TAP INTO EXISTING SEWER LINE, REMOVE AS NEEDED
8. SAWCUT EXISTING ASPHALT TO A NEAT ENDGE, REMOVE AND REPLACE IN KIND PER MAG STD DTL 200-1 T TOP, TRENCH REPAIR 2"MIN THICKNESS OR MATCH EXISTING, WHICHEVER IN GREATER, USE FULL DEPTH ABC



SEWER PROFILE #1



SEWER PROFILE #2



SEWER PROFILE #3 | SEWER PROFILE #4 | SEWER PROFILE #5 | SEWER PROFILE #6

10

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orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
oneil.t@owp.com
602.257.1764 t
602.257.9029 f
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Phone 480.629.8830
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Scottsdale Unified School District

Cherokee Elementary School Replacement

8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
Dennis Roehler
9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

PROJECT NO.	DATE OF ISSUE
050641-01-001	10.10.19

REVISION NO.	DATE
1	12.10.19
10	03.25.20

PROJECT TEAM	DRAWN BY
BOWMAN	LGR

PROJECT PHASE
PERMIT SET

SHEET CONTENTS
SEWER PROFILES SHEET

SHEET NO.
C5.2

SHT 21 OF 23

P:\050641 - CHEROKEE ELEMENTARY SCHOOL\050641-01-001 (ENG)\ENGINEERING\ENGINEERING PLANS\IMPROVEMENT PLANS\050641-CP-C5.2-SSP.DWG

CHEROKEE ELEMENTARY SCHOOL
STORM WATER POLLUTION PREVENTION PLAN
PARADISE VALLEY, ARIZONA
A PORTION OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 3 NORTH, RANGE 4 EAST
OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA

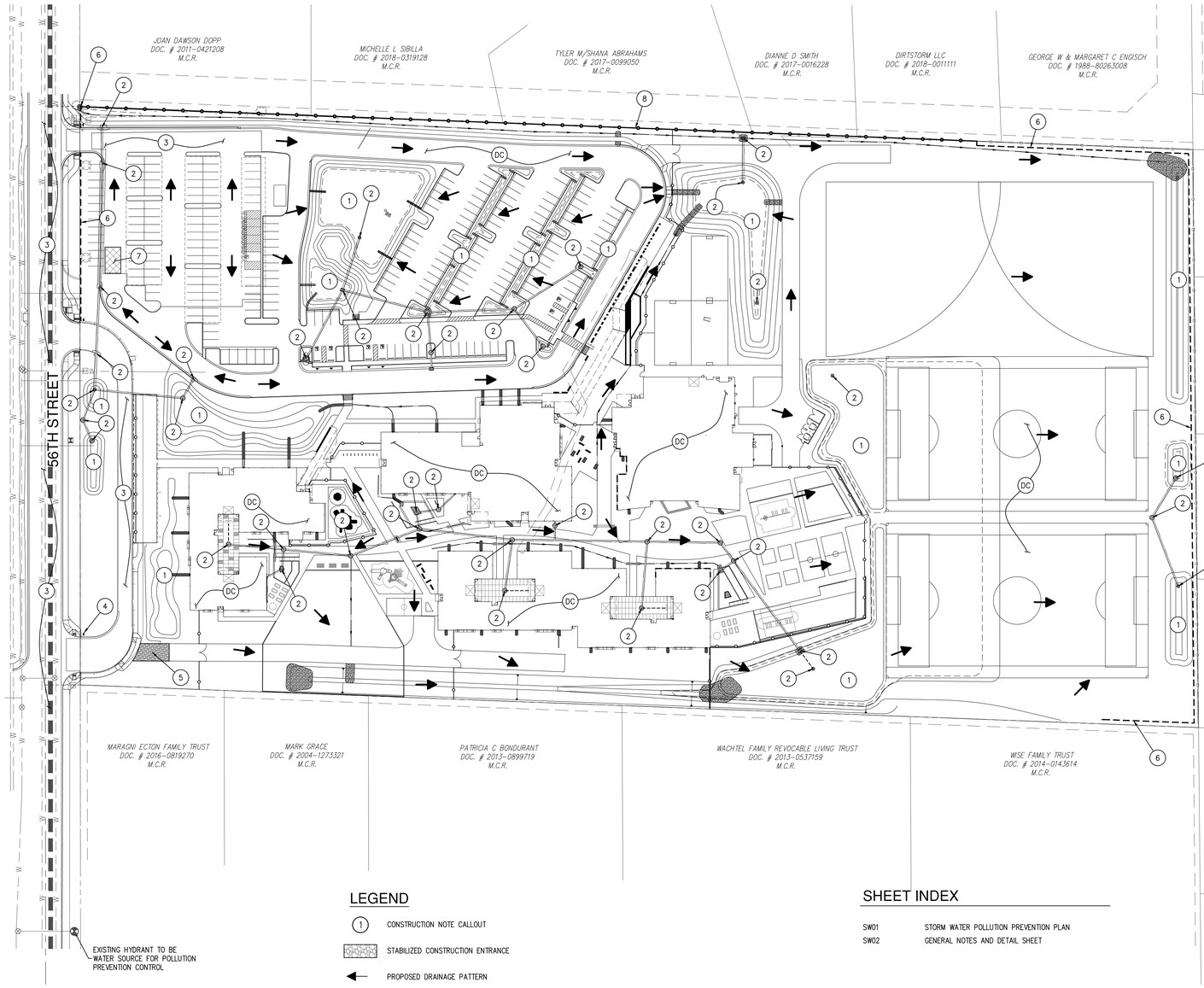
LEGAL DESCRIPTION
THE SOUTH HALF OF THE NORTHWEST QUARTER OF THE NORTHWEST QUARTER OF SECTION 33, TOWNSHIP 3 NORTH, RANGE 4 EAST OF THE GILA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY ARIZONA;

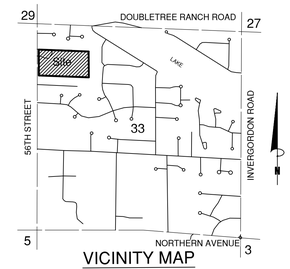
EXCEPT THE WEST 40 FEET THEREOF AS CONVEYED TO MARICOPA COUNTY BY GRANT DEED RECORDED IN DOCKET 1269, PAGE 73.

APN: 168-43-003

PROJECT DESCRIPTION
CHEROKEE ELEMENTARY SCHOOL IS A 19.43-ACRE PARCEL OF LAND LOCATED ON 8801 NORTH 56TH STREET IN PARADISE VALLEY, ARIZONA. THE SITE IS ZONED R-43S

SITE INFO
NET ACREAGE= 19.431 ACRES
TOTAL AREA TO BE DISTURBED= 18.43 ACRES





VICINITY MAP
N.T.S.

OWNER
SCOTTSDALE UNIFIED SCHOOL DISTRICT.
9288 E SAN SALVADOR DRIVE
SCOTTSDALE, ARIZONA 85258
CONTACT: DENNIS ROEHLER
PHONE: 480.484.8503

ARCHITECT
ORCUTT WINSLOW
2929 N CENTRAL AVENIE
PHOENIX, ARIZONA 85012
PHONE: 602.257.1764
CONTACT: FATIMA GARCIA
EMAIL: Garcia.f@owp.com

CIVIL ENGINEER
BOWMAN CONSULTING
1295 W WASHINGTON ST
SUITE 108
TEMPE, AZ 85281
PHONE: 480.629.8830
ENGINEER: DAVID MALDONADO-CAMOU
E-MAIL: dmaldonado@bowmanconsulting.com

CONSTRUCTION NOTES:
1. NO WORK OF ANY KIND MAY COMMENCE CONSTRUCT RETENTION BASINS IN ACCORDANCE WITH THE GRADING & DRAINAGE PLAN. CONSTRUCTION BASINS SHALL ALSO ACT AS SEDIMENTATION BASINS DURING THE CONSTRUCTION PHASE.
2. PLACE FIBER ROLLS, PER BMP SPC-1, OR GEOTEXTILE FABRIC AT CATCH BASINS & CURB OPENINGS TO PREVENT SEDIMENTATION FROM ENTERING.
3. STREETS SHALL BE SWEPT WHEN SEDIMENT IS PRESENT AND KEPT FREE OF TRACK OUT PER GH-6
4. POST SIGN NEAR MAIN ENTRANCE WITH AZPDES AUTHORIZATION NUMBER, NAME AND TELEPHONE NUMBER OF CONTACT PERSON AND A BRIEF DESCRIPTION OF PROJECT.
5. CONSTRUCT AND MAINTAIN A 30' WIDE x 50' LONG STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF A MINIMUM OF 6" OF 1" TO 3" DIAMETER, WASHED, WELL GRADED GRAVEL OR CRUSHED ROCK PER BMP EC-5.
6. CONSTRUCT AND MAINTAIN A SEDIMENT BERM ALONG LOW POINT OF THE SITE PER ADOT DTL E5 AND/OR SILT FENCE PER BMP SPC-5 TO PREVENT SEDIMENT FROM LEAVING THE SITE.
7. CONSTRUCT AND MAINTAIN A MATERIALS STORAGE/CONSTRUCTION STAGING AND WASHOUT AREA PER BMP'S GH-2, GH-3, GH-4.
8. CONSTRUCT AND MAINTAIN SEDIMENT WATTLE BARRIER ALONG THE PROPERTY LINE PER BMP SPC-1 TO PREVENT SEDIMENT FROM LEAVING THE SITE.
DC. APPLY DUST CONTROL MEASURES OVER DISTURBED AREAS PER BMP EC-7

SWPP CERTIFICATION
I CERTIFY UNDER PENALTY OF LAW THAT THIS DOCUMENT AND ALL ATTACHMENTS WERE PREPARED UNDER MY DIRECTION OR SUPERVISION IN ACCORDANCE WITH A SYSTEM DESIGNED TO ASSURE THAT QUALIFIED PERSONNEL PROPERLY GATHER AND EVALUATE THE INFORMATION SUBMITTED. BASED ON MY INQUIRY OF THE PERSON OR PERSONS WHO MANAGE THIS SYSTEM, OR THOSE PERSONS DIRECTLY RESPONSIBLE FOR GATHERING THE INFORMATION, I BELIEVE THE INFORMATION SUBMITTED IS TRUE, ACCURATE, AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. IN ADDITION I CERTIFY THAT THE PERMITTEE WILL COMPLY WITH ALL TERMS AND CONDITIONS STIPULATED IN GENERAL PERMIT NO. AZG2008-001 ISSUED BY THE DIRECTOR.

PRINTED NAME

SIGNATURE

CONTRACTOR CERTIFICATION
I _____ ACTING AS

FOR THE _____ AN AUTHORIZED REPRESENTATIVE, HAVING REVIEWED THIS STORM WATER MANAGEMENT PLAN (SWMP) AND ALL OF THE RELEVANT DOCUMENTS, DO HEREBY CERTIFY THAT I UNDERSTAND ALL COMPONENTS OF THIS PLAN AND WILL PERFORM ALL REQUIRED INSPECTIONS AND MAINTENANCE ACTIVITIES AS REQUIRED.; AND THAT I WILL MAINTAIN ALL NECESSARY AND REQUIRED RECORDS AT THE JOB SITE AND UP TO DATE.

SIGNATURE

NOTE
NO WORK OF ANY KIND MAY OMMENCE UNTIL ALL STORM WATER POLLUTION BMPS ARE INSTALLED, INSPECTED AND APPROVED BY THE TOWN.

SEDIMENTATION CONTROL DEVICES (SILT BARRIERS) SHALL REMAIN IN PLACE AFTER DEMOLITION IS COMPLETE. SEDIMENTATION CONTROL DEVICES SHALL BE INSPECTED MONTHLY, AFTER EACH RAIN EVENT AND MAINTAINED AS NEEDED TO BE KEPT IN PROPER WORKING ORDER BY PERMIT APPLICANT AND/OR OWNER.

SEDIMENTATION CONTROL DEVICE INSPECTION LOG SHALL BE MAINTAINED BY APPLICANT AND/OR OWNER AND MADE AVAILABLE TO THE TOWN UPON REQUEST.

LEGEND
- (1) CONSTRUCTION NOTE CALLOUT
- STABILIZED CONSTRUCTION ENTRANCE
- PROPOSED DRAINAGE PATTERN
- (DC) DUST CONTROL
- FILTER BARRIER
- ULTIMATE STORM OUTFALL
- SEDIMENT WATTLE BARRIER

SHEET INDEX

SW01	STORM WATER POLLUTION PREVENTION PLAN
SW02	GENERAL NOTES AND DETAIL SHEET

KEY MAP
N.T.S.

THIS SET OF CONSTRUCTION PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES FOR REVIEW AND TO DETERMINE ANY POTENTIAL CONFLICTS.

UTILITY COMPANY	COMPANY CONTACT	DATE SUBMITTED
SOUTHWEST GAS CORPORATION	HOPE OLGVIN – 480.730.3845	
COX COMMUNICATIONS	KEN DEGRAFFENREID – 623.328.3423	
ARIZONA PUBLIC SERVICE	CYNTHIA KEE – 602.371.7667	
CENTURY LINK	ESTHER MEDINA – 480.768.4474	
CITY OF PHOENIX WATER		

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orcutt winslow
2929 n central ave
eleventh floor
phoenix arizona 85012
oneil.t@owp.com
602.257.1764 t
602.257.9029 f
www.owp.com

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RECOGNIZED AND EXPIRES ON 48621 DAVID MALDONADO-CAMOU

Scottsdale Unified School District
Cherokee Elementary School Replacement
8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
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9288 E. San Salvador Dr.
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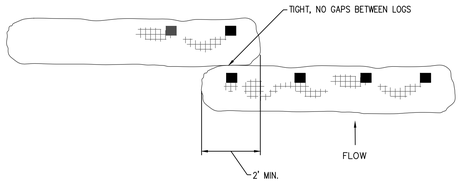
PROJECT NO.	DATE OF ISSUE
050641-01-001	10.10.19
REVISION NO.	DATE
⚠	12.10.19

PROJECT TEAM	DRAWN BY
BOWMAN	LGR

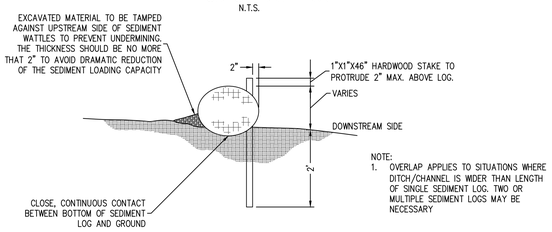
PROJECT PHASE
PERMIT SET

SHEET CONTENTS
STORM WATER POLLUTION PREVENTION PLAN

SHEET NO.
C6.1
SHT 22 OF 23



TYPICAL OVERLAP PLAN
N.T.S.



NOTE:
1. OVERLAP APPLIES TO SITUATIONS WHERE DITCH/CHANNEL IS WIDER THAN LENGTH OF SINGLE SEDIMENT LOG. TWO OR MULTIPLE SEDIMENT LOGS MAY BE NECESSARY

DETAIL SPC-1
SEDIMENT WATTLE/LOG INSTALLATION
N.T.S.

GH-4: DESIGNATED WASHDOWN AREA

PCC AND AC WASTES

- PCC AND AC WASTE SHOULD NOT BE ALLOWED TO ENTER STORM DRAINS OR WATER COURSES. INSTEAD, PCC AND AC WASTE SHOULD BE COLLECTED AND PROPERLY DISPOSED OF OUTSIDE THE HIGHWAY RIGHT-OF-WAY OR PLACED IN A TEMPORARY CONCRETE WASHOUT STRUCTURE.
- INSTALL A SIGN ADJACENT TO EACH TEMPORARY CONCRETE WASHOUT STRUCTURE TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE INSTALLED STRUCTURES.
- A FOREMAN AND/OR CONSTRUCTION SUPERVISOR SHOULD MONITOR ONSITE CONCRETE WORKING TASK, SUCH AS SAWCUTTING, CORING, GRINDING AND GROOVING TO ENSURE PROPER METHODS ARE IMPLEMENTED.
- SAWCUTTING RESIDUE SHOULD NOT BE ALLOWED TO FLOW ACROSS THE PAVEMENT, AND SHOULD NOT BE LEFT ON THE SURFACE OF THE PAVEMENT. VACUUM SLURRY RESIDUE AND DISPOSE IN A TEMPORARY FACILITY AND ALLOW SLURRY TO DRY. DISPOSE OF DRY SLURRY RESIDUE IN ACCORDANCE WITH GH-2: SOLID WASTE MANAGEMENT.
- SIMILARLY, RESIDUE FROM GRINDING OPERATIONS SHOULD BE PICKED UP BY MEANS OF A VACUUM ATTACHMENT TO THE GRINDING MACHINE.

ONSITE TEMPORARY CONCRETE WASHOUT FACILITY PROCEDURES

- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE LOCATED A MINIMUM IF 50 FEET FROM STORM DRAIN INLETS, OPEN DRAINAGE FACILITIES, AND WATER COURSES, UNLESS DETERMINED INFEASIBLE BY THE SITE SUPERVISOR. EACH FACILITY SHOULD BE LOCATED AWAY FROM CONSTRUCTION TRAFFIC OR ACCESS AREAS TO PREVENT DISTURBANCE OR TRACKING.
- TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE CONSTRUCTED ABOVE GRADE OR BELOW GRADE AT THE OPTION OF THE CONTRACTOR AND HAVE SUFFICIENT QUANTITY AND SIZE TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS.
- PERFORM WASHOUT CONCRETE MIXER TRUCKS IN DESIGNATED AREAS ONLY. A SIGN SHOULD BE INSTALLED ADJACENT TO EACH WASHOUT FACILITY TO INFORM CONCRETE EQUIPMENT OPERATORS TO UTILIZE THE PROPER FACILITIES.
- WASH CONCRETE ONLY FROM MIXER TRUCK CHUTES INTO APPROVED CONCRETE WASHOUT FACILITY. WASHOUT MAY BE COLLECTED IN AN IMPERMEABLE BAG FOR DISPOSAL

ABOVE GRADE TEMPORARY CONCRETE WASHOUT STRUCTURE

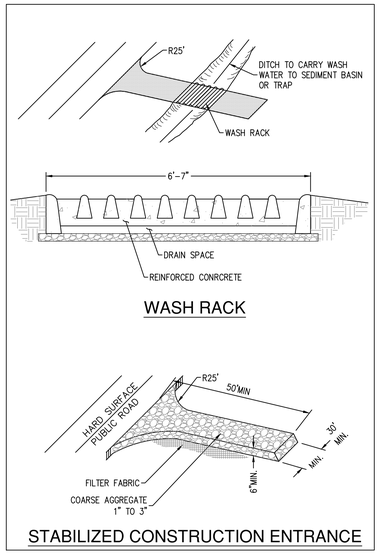
- ABOVE GRADE TEMPORARY CONCRETE WASHOUT STRUCTURES SHOULD HAVE A MINIMUM LENGTH AND WIDTH OF 10 FEET OR LARGER TO PROVIDE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. IF DEEMED NECESSARY, THE LENGTH AND WIDTH OF THE WASHOUT STRUCTURE MAY BE EXPANDED FOR MORE CAPACITY.
- STRAW BALES, WOOD STAKES, AND SANDBAG MATERIALS SHOULD CONFORM TO THE SPECIFICATIONS IN SPC-1: ORGANIC FILTER BARRIER AND SPC-2: SAND BAG BARRIER.
- PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10-MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.

BELOW GRADE TEMPORARY CONCRETE WASHOUT STRUCTURE

- BELOW GRADE TEMPORARY CONCRETE WASHOUT SHOULD HAVE A MINIMUM LENGTH AND WIDTH OF 10 FEET OR LARGER TO PROVIDE SUFFICIENT VOLUME TO CONTAIN ALL LIQUID AND CONCRETE WASTE GENERATED BY WASHOUT OPERATIONS. IF DEEMED NECESSARY, THE LENGTH AND WIDTH OF THE WASHOUT STRUCTURE MAY BE EXPANDED FOR MORE CAPACITY.
- PLASTIC LINING MATERIAL SHOULD BE A MINIMUM OF 10-MIL POLYETHYLENE SHEETING AND SHOULD BE FREE OF HOLES, TEARS OR OTHER DEFECTS THAT COMPROMISE THE IMPERMEABILITY OF THE MATERIAL.
- ENSURE THAT THE SOIL BASE IF FREE OF ROCKS OR OTHER DEBRIS THAT MAY CAUSE TEARS OR HOLES IN THE PLASTIC LINING MATERIAL. REMOVAL OF TEMPORARY CONCRETE WASHOUT FACILITIES.
- WHEN TEMPORARY CONCRETE WASHOUT FACILITIES ARE NO LONGER REQUIRED FOR THE WORK, AS DETERMINED BY THE SITE SUPERVISOR, HARDENED CONCRETE SHOULD BE BROKEN UP, REMOVED, AND HOLES, DEPRESSIONS OR OTHER GROUND DISTURBANCE CAUSED BY THE REMOVAL OF THE TEMPORARY CONCRETE WASHOUT FACILITIES SHOULD BE BACKFILLED.

RECOMMENDED MAINTENANCE AND INSPECTION

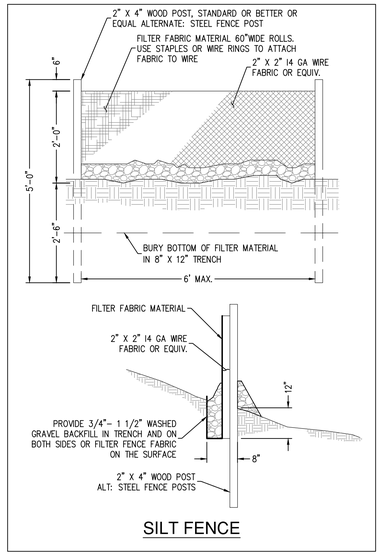
- MONITOR ON SITE CONCRETE WASTE STORAGE AND DISPOSAL PROCEDURES AT LEAST WEEKLY.
- MONITOR CONCRETE WORKING TASKS, SUCH AS SAW CUTTING, CORING, GRINDING AND GROOVING TO ENSURE PROPER METHODS ARE EMPLOYED.



WASH RACK

STABILIZED CONSTRUCTION ENTRANCE

BMP EC-5
N.T.S.

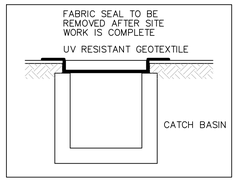


SILT FENCE

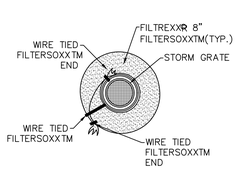
BMP DETAIL SPC-5
N.T.S.

EC-7: DUST CONTROL			
TYPES	FUNCTIONAL MECHANISM	ADVANTAGES	LIMITATIONS
FRESH WATER	MOISTURE WETS PARTICLES,THEREBY INCREASING THEIR MASS AND BINDING THEM TOGETHER	USUALLY READILY AVAILABLE, LOW MATERIAL COST, AND EASY TO APPLY	FREQUENT LIGHT APPLICATIONS MAY BE NECESSARY DURING HOT DRY WEATHER AND CAN BE LABOR INTENSIVE. OVER APPLICATION MAY RESULT IN LOSS IN TRACTION,EROSION, OR POINTS OF ROAD FAILURE.
SYNTHETIC POLYMER	BIND SOIL PARTICLES TOGETHER BY FORMING A POLYMERIZING MATRIX; A FUNCTION SIMILAR TO ADHESIVES	APPLICABLE TO A RANGE OF EMISSION SOURCES AND FUNCTION WELL IN SANDY SOIL CONDITIONS. SOME TYPES ALLOW SEEDED VEGETATION TO GROW THROUGH THE POLYMER MATRIX	REQUIRE PROPER WEATHER AND TIME TO CURE. WATER REPELLENT, MAY BE SUBJECT TO UV(SUNLIGHT) DEGRADATION. APPLICABLE EQUIPMENT REQUIRES TIMELY CLEANING. THERE IS NO RESIDUAL EFFECTIVENESS AFTER REBLADING

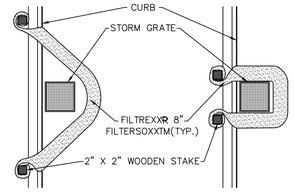
INSPECTION AND MAINTENANCE CHECKLIST		
BMP	PERSON RESPONSIBLE	FREQUENCY OF INSPECTION
STABILIZED ENTRANCE		
INLET PROTECTION		
SILT FENCE		
CONCRETE WASHOUT		



GEOTEXTILE FABRIC SEAL
BMP SPC-1

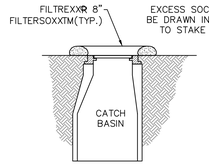


STANDARD PLAN VIEW

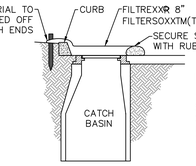


CURBSIDE STORM GRATE OPTION "A" PLAN VIEW

CURBSIDE STORM GRATE OPTION "B" PLAN VIEW



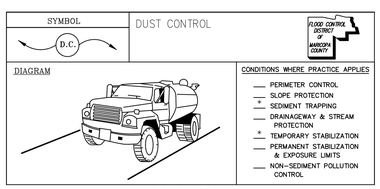
STANDARD SECTION



CURBSIDE STORM GRATE SECTION

NOTES:
1. ALL MATERIAL TO MEET FILTREXX® SPECIFICATIONS.
2. FILTERSOXTM COMPOST/SOIL/ROCK/SEED FILL TO MEET APPLICATION REQUIREMENTS.
3. COMPOST MATERIAL TO BE DISPERSED ON SITE, AS DETERMINED BY ENGINEER.

BMP SPEC-1
N.T.S.



BMP EC-7
N.T.S

GH-2 Solid Waste Management Photos



Separate out different wastes from each other for recycling.

Place signage on the dumpster to prevent improper disposal of hazardous wastes.

BMP GH-2
N.T.S

GH-6 Road Sweeping/Trackout Cleaning Photos

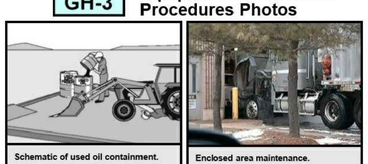


Road sweeping

Courtesy of Douglas County

BMP GH-6
N.T.S

GH-3 Equipment Maintenance Procedures Photos



Schematic of used oil containment.

Courtesy of CALTRANS

Enclosed area maintenance.

Courtesy, of EPA.

BMP GH-3
N.T.S

GH-4 Designated Washdown Areas Photos



Concrete washout container.

Courtesy of Concrete Washout Systems, Inc.

Concrete washout area.

Courtesy of Douglas County

BMP GH-4
N.T.S

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BECOMING AN ARIZONA REGISTERED LANDSCAPE ARCHITECT
48621
DAVID MALDONADO-CAMOU
RENEWAL DATE 07-31-19

Bowman CONSULTING
Bowman Consulting Group, Ltd.
1295 West Washington, Suite 108
Tempe, Arizona 85281
Phone (480) 629-8830
www.bowmanconsulting.com
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Scottsdale Unified School District
Cherokee Elementary School Replacement
8801 N 56th Street, Paradise Valley, AZ 85253

CLIENT CONTACT
Dennis Roehler
9288 E. San Salvador Dr.
Scottsdale, AZ 85258
480.484.8503 t

PROJECT NO.	DATE OF ISSUE
050641-01-001	10.10.19
REVISION NO.	DATE
⚠	12.10.19

PROJECT TEAM	DRAWN BY
BOWMAN	LGR

PROJECT PHASE
PERMIT SET

SHEET CONTENTS
GENERAL NOTES AND DETAILS SHEET

SHEET NO.
C6.2
SHT 23 OF 23

Call at least two full working days before you begin excavation.
ARIZONA811
Arizona Blue Stake, Inc.
Dial 8-1-1 or 1-800-STAKE-IT (782-5348)
In Maricopa County: (602) 263-1100

CORE CONSTRUCTION

SUSD Cherokee - Replacement

Adjacent Ways - Guaranteed Maximum Price - 11/15/19

LOCATION: Paradise Valley, AZ
ARCHITECT: Orcutt | Winslow
DURATION(mnths): 16
WARRANTY(yrs): 2
SITE ACREAGE: 19.0
SQUARE FOOTAGE: 78,441

#	Description	BREAKOUTS Adjacent Ways
	GENERAL REQUIREMENTS	$8,673
GR1	General Requirements	$7,638
MT/SI	Material Testing / Special Inspection	$1,035
	DEMOLITION/ OFF-SITE INFRASTRUCTURE	$6,395
1	Demolition	$6,395
	SITE WORK (ROUGH)	$250,832
6	Surveying/Staking	$5,500
7	Earthwork & Paving	$160,332
8	Site Utilities	$85,000
	SITE WORK (FINISH)	$341,325
14	Site Signage & Striping	$5,445
15	Gravel Pave / Grass Pave	$48,780
19	Site Concrete	$287,100
	STRUCTURE	$0
	ENCLOSURE	$0
	INTERIOR FINISHES	$0
	SPECIALTIES	$0
	EQUIPMENT	$0
	MEP SYSTEMS	$0
	SPECIAL SYSTEMS	$0
	CONTINGENCIES & ALLOWANCES	$25,562
2.0%	Construction Contingency	$17,042
0.75%	Owner / Design Review Comments Contingency	$6,391
0.25%	Escalation Contingency	$2,130
	Subtotal	$632,788
	Subtotal (with GC's and Prof. Services)	$734,685
	Subtotal (with GC's, Prof. Services, & Insurance)	$765,406
	Subtotal (with GC's, Prof Services, Insurance, & Tax)	$811,508

RATE	CONTRACTOR'S FEE	SUB TOTAL
5.00%	Construction Manager At Risk Fee	$40,575

Subtotal (GC's, Prof Services, Insurance, Tax, & Fee)	$852,083

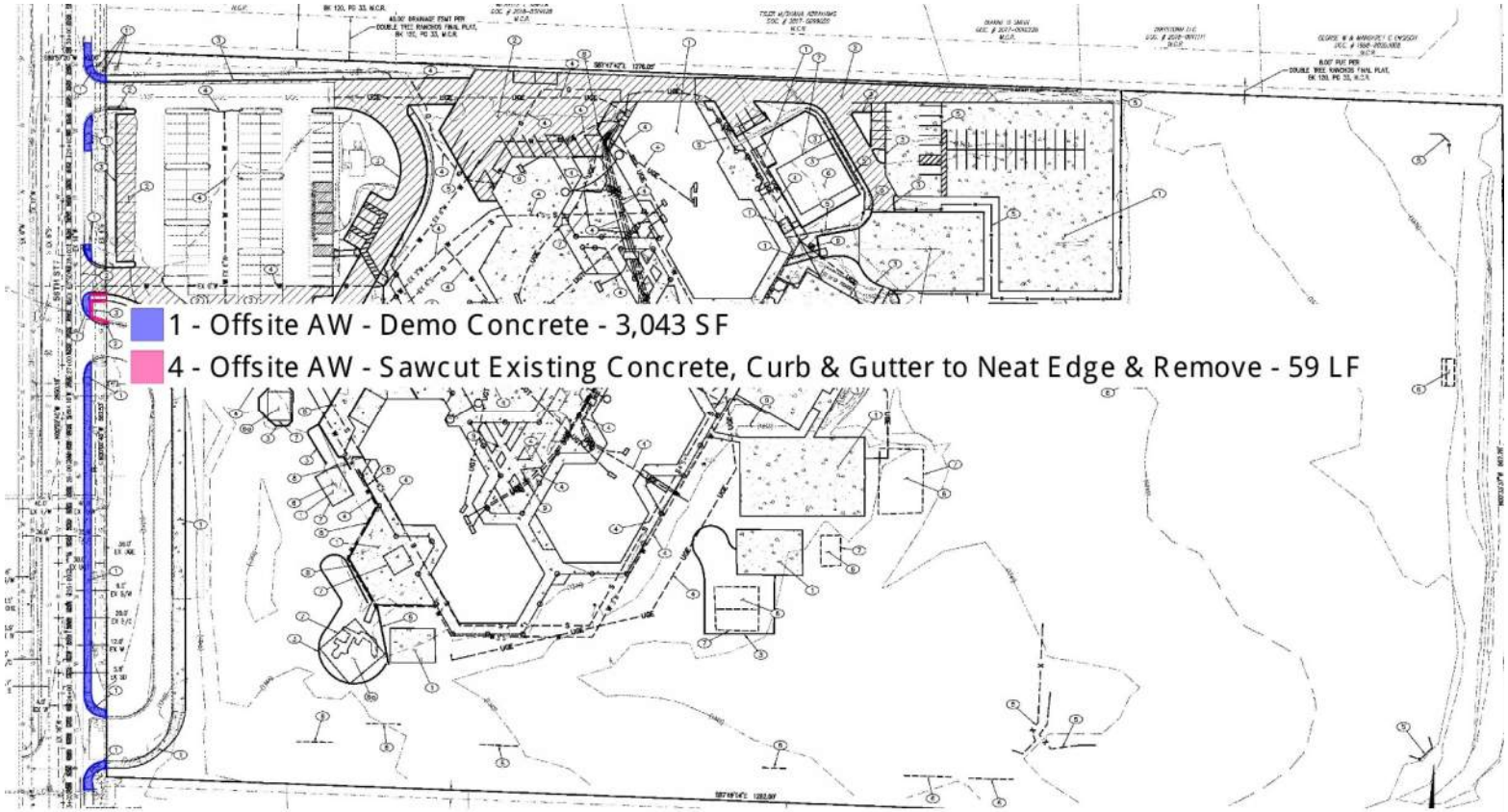
	Adjacent Ways
GMP Total	$852,083

Basis of Adjacent Ways – Scottsdale USD Cherokee ES Rebuild

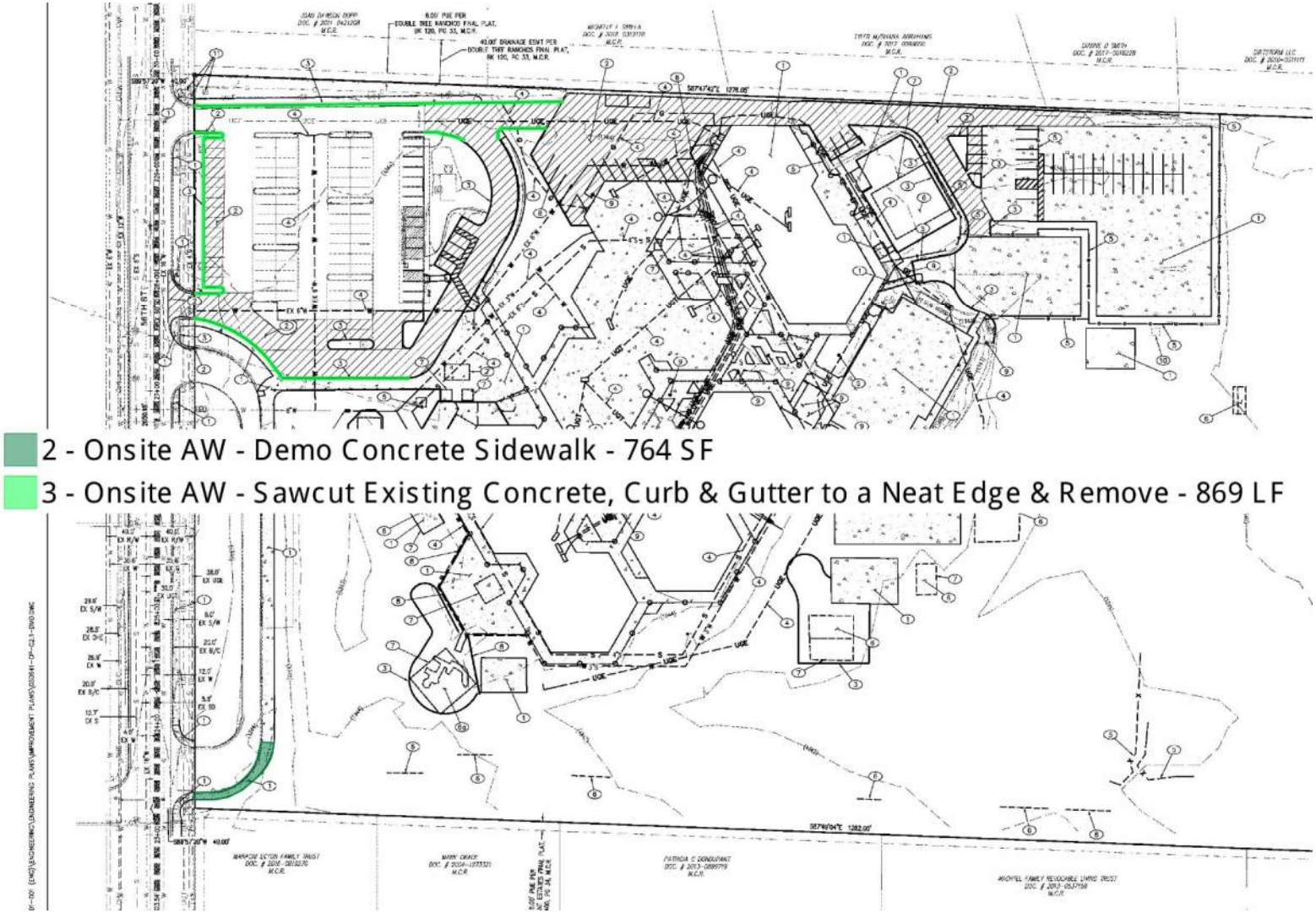
This cost is to cover the Bus and Fire equipment access lanes throughout the site as well as the offsite improvements adjacent to school property. The scopes of work that fall within these boundaries are as follows: Demolition, Earthwork & Paving, Landscaping, Offsite Utilities & Utility connections, Material Testing & Special Inspections, Signage & Striping and Site Concrete.

A. Demolition & Landscaping

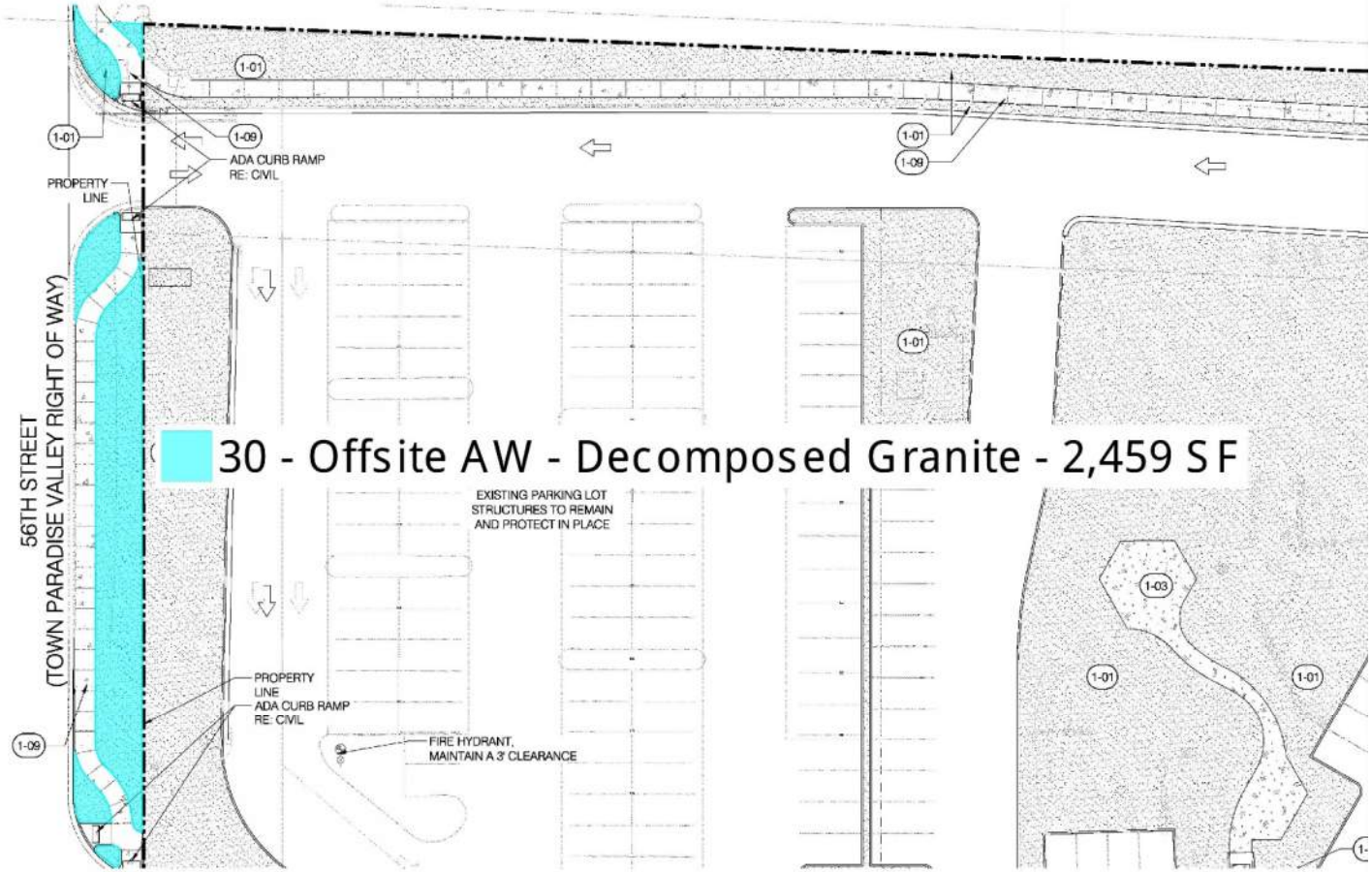
A1. Offsite Demolition from Sheet C2.1 (image below):



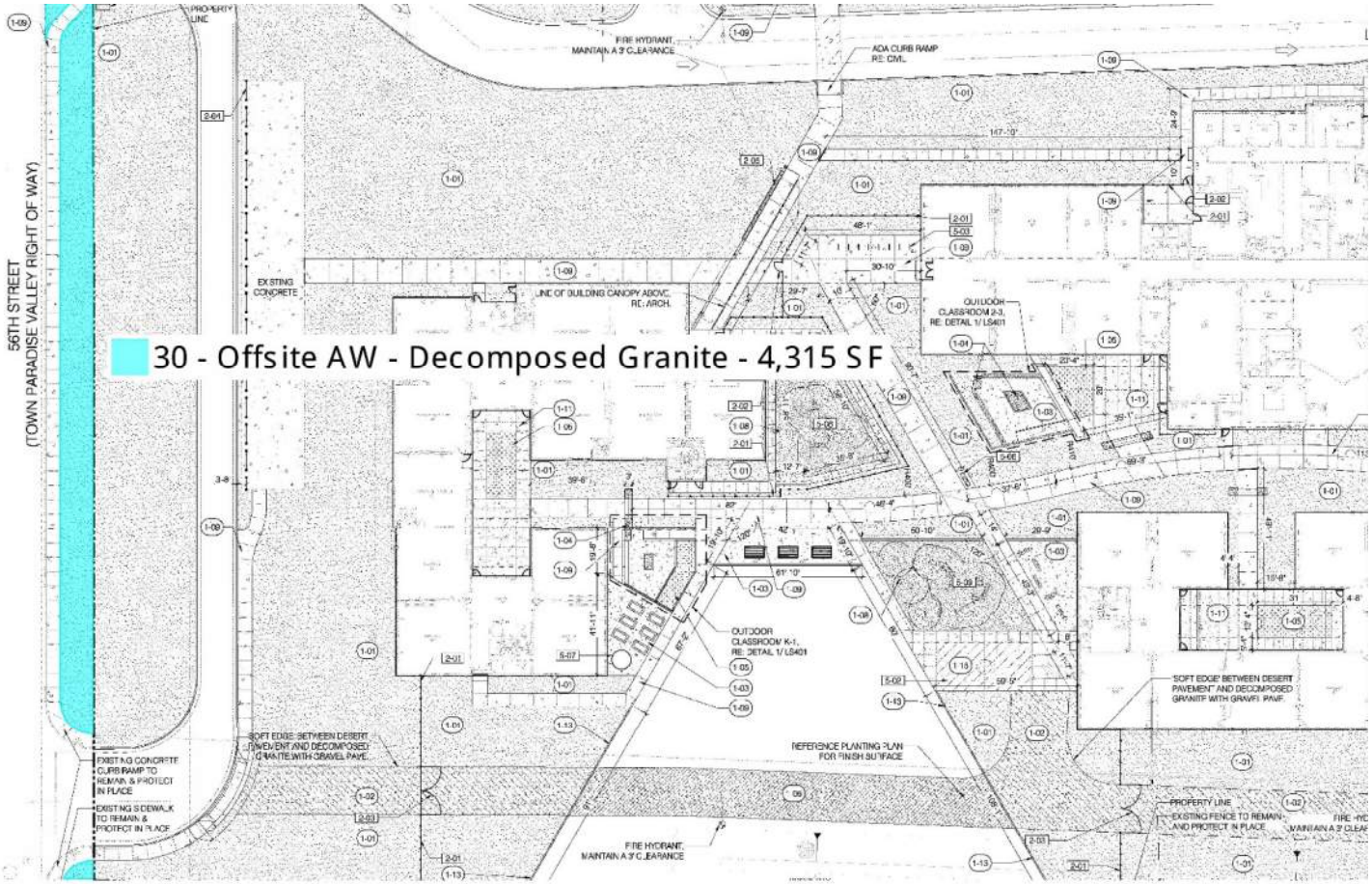
A2. Onsite Demolition from sheet C2.1 (image below):



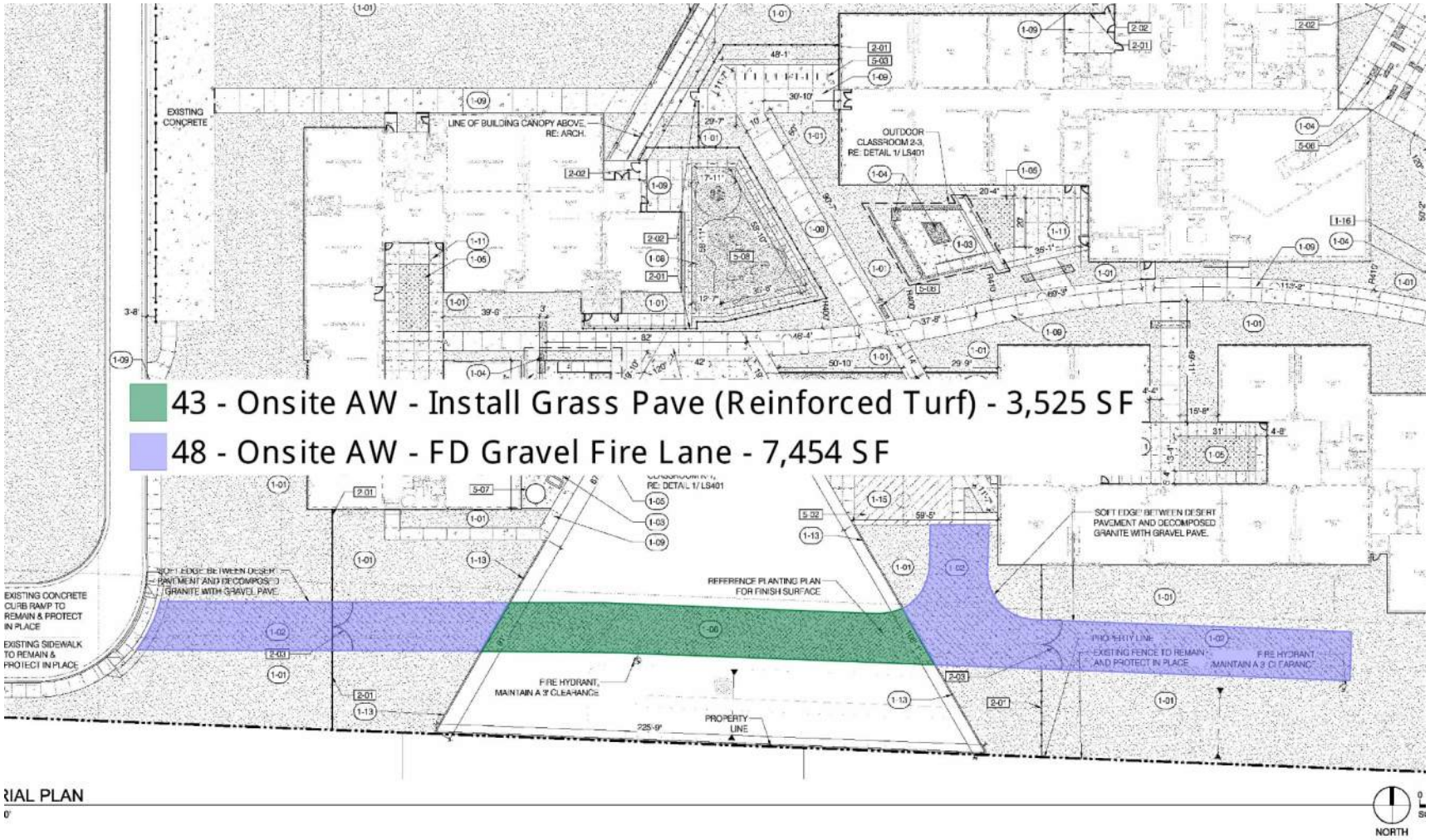
A3. Offsite Landscaping Materials from Sheet LM103 (image below):



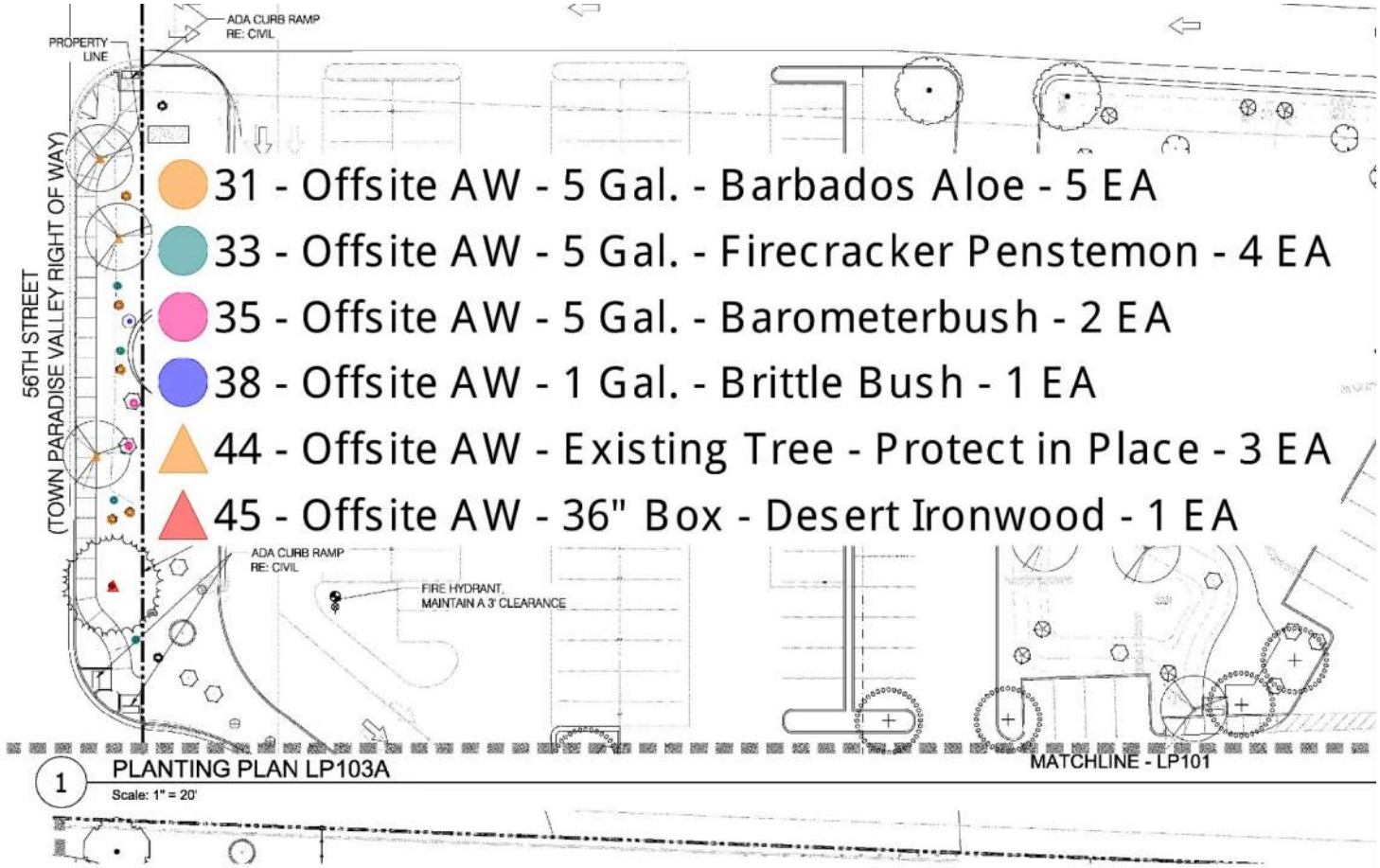
A4. <u>Offsite</u> Landscaping Materials from Sheet LM101 (image below):



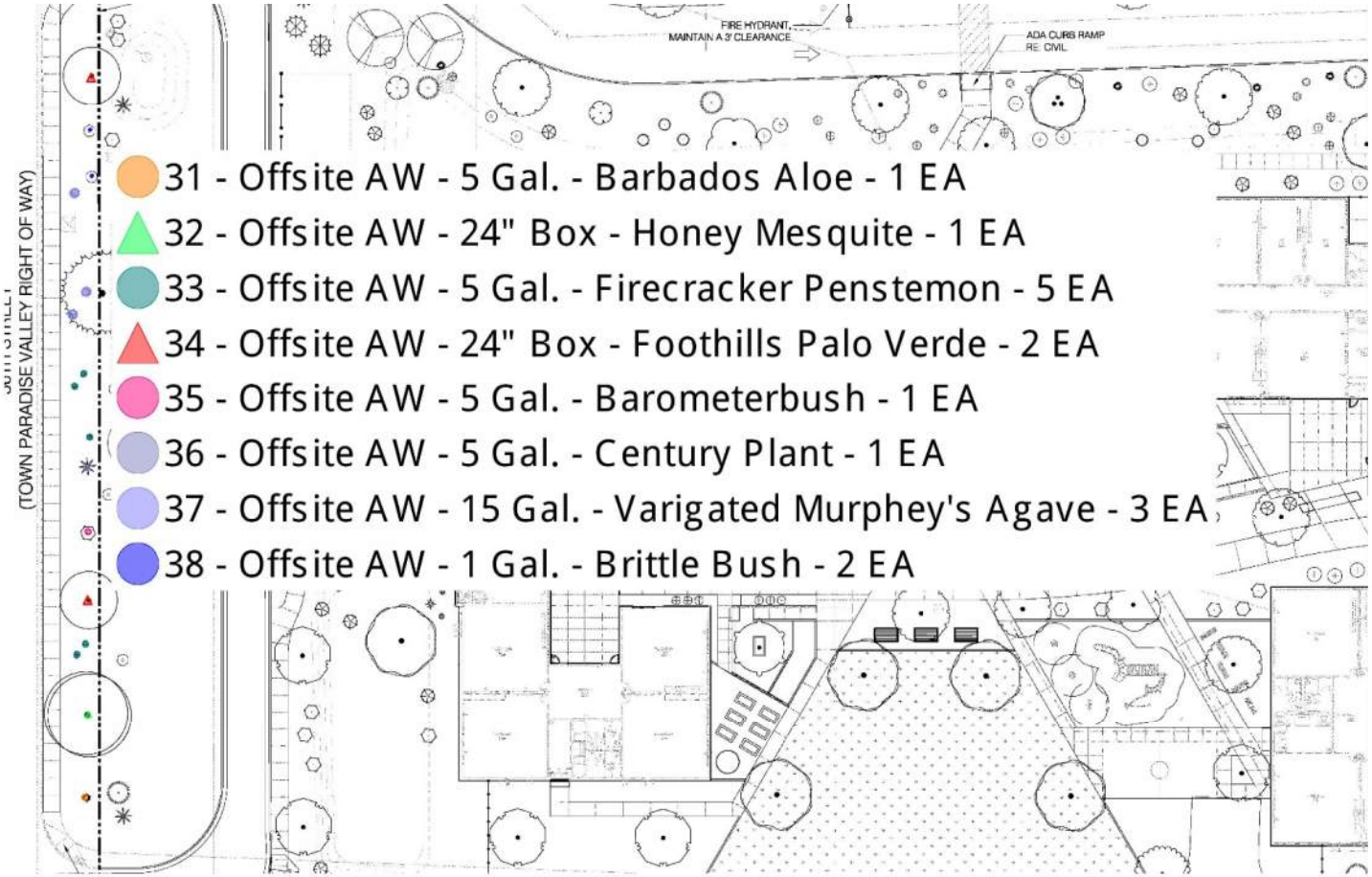
A5. Onsite Landscaping Materials from Sheet LM101 (image below):



A6. Offsite Landscaping Planting from Sheet LP103 (image below):

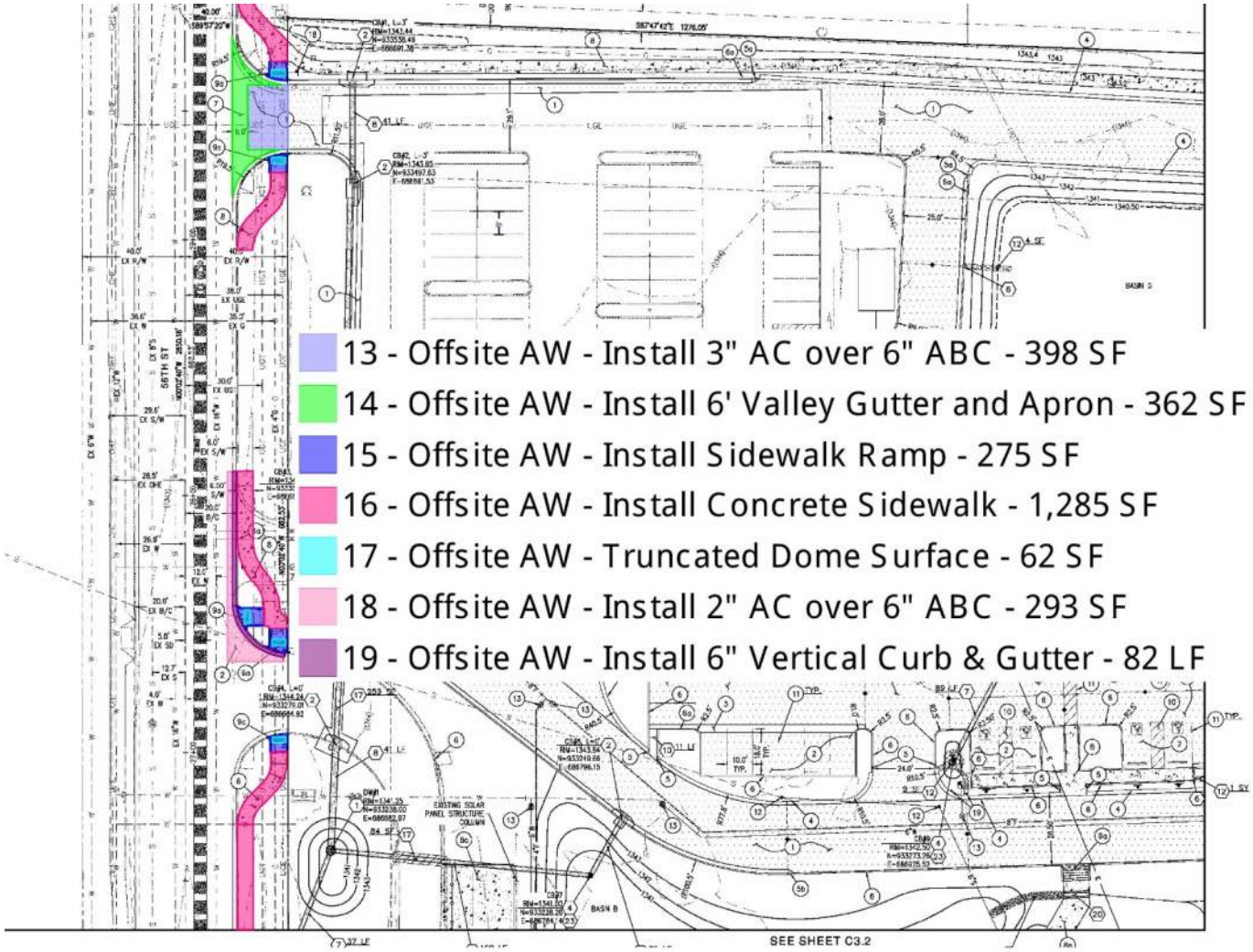


A7. Offsite Landscaping Planting from Sheet LP101 (image below):

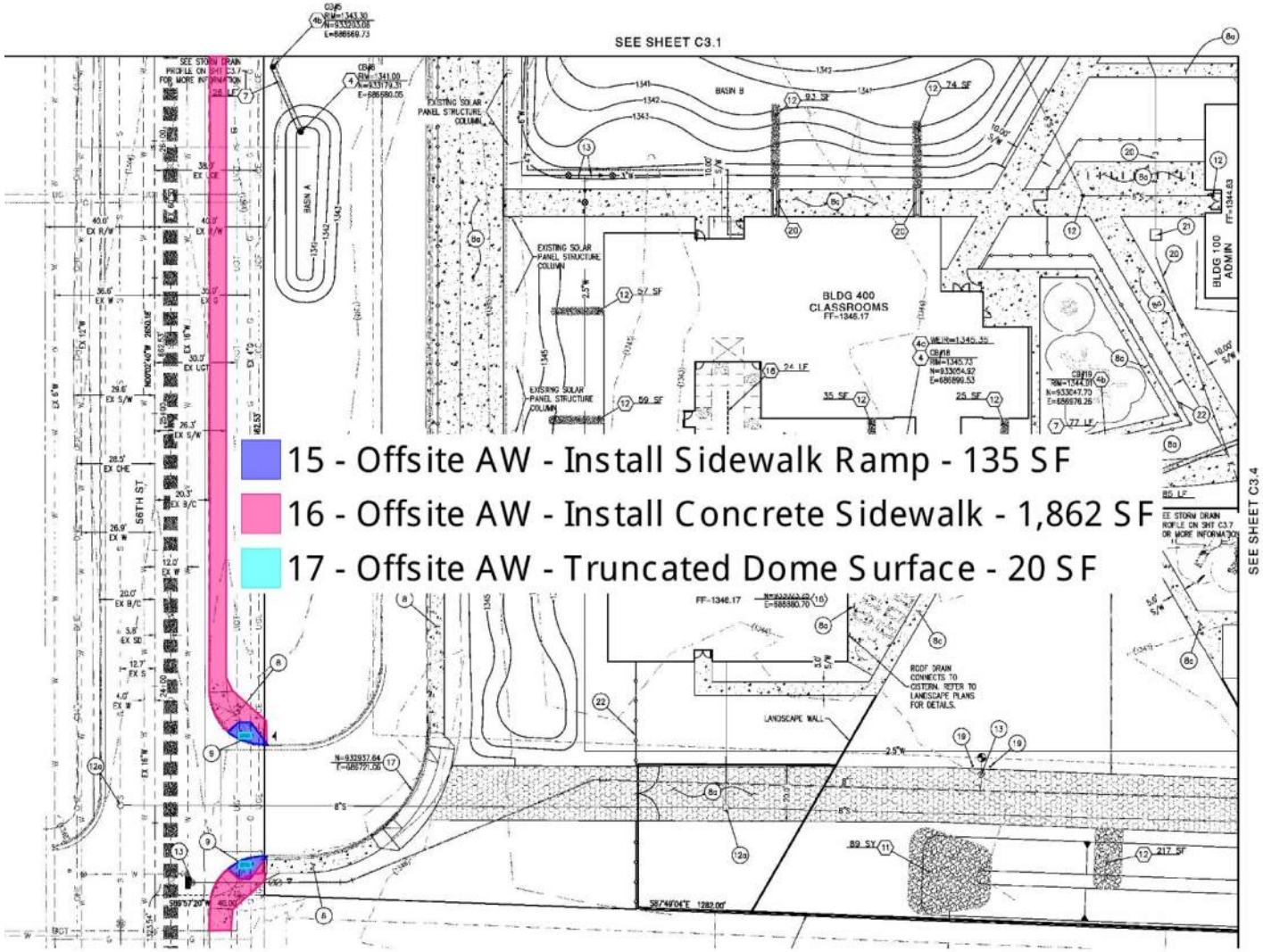


B. Site Concrete, Earthwork & Paving

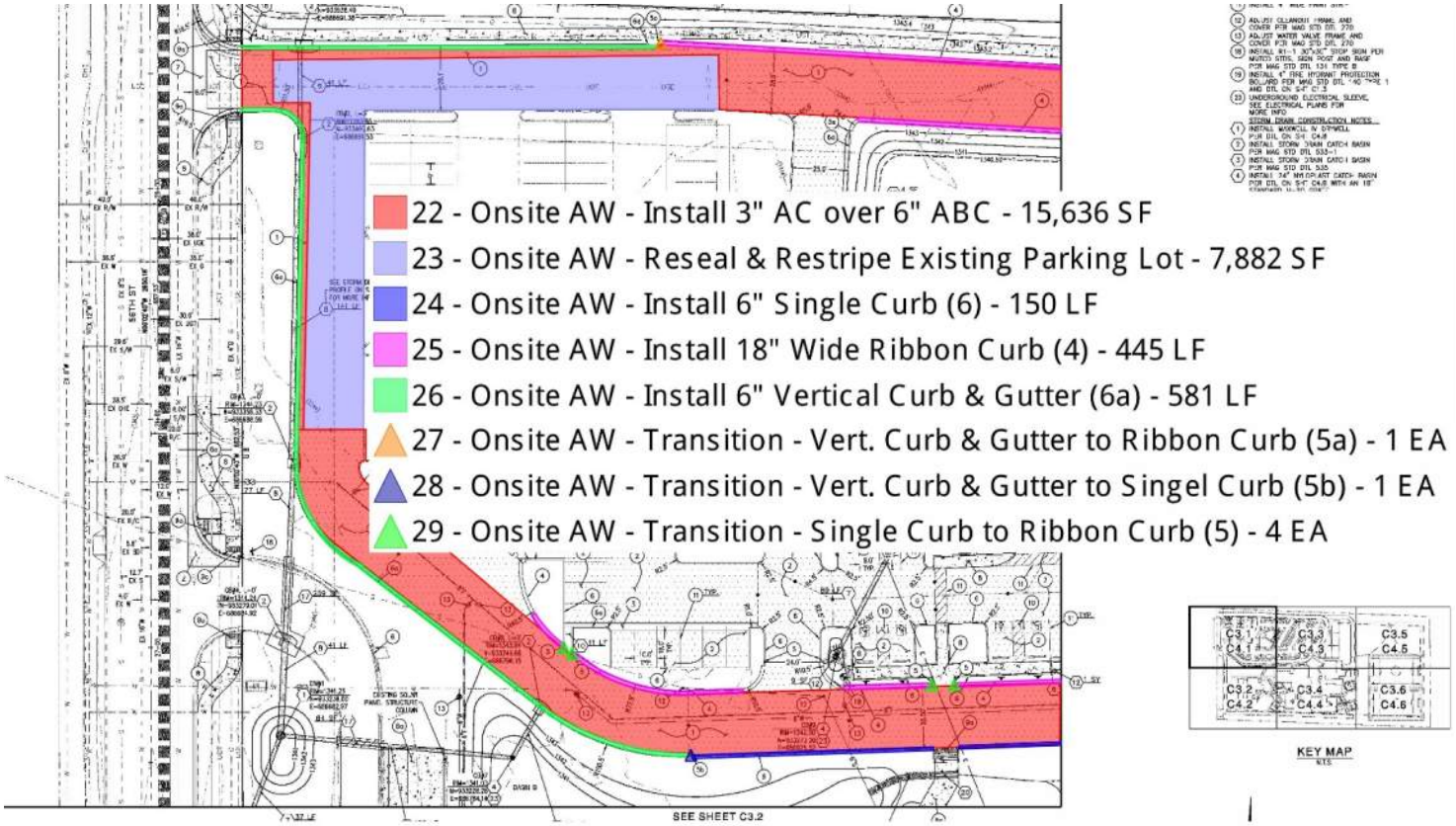
B1. Offsite Concrete and Paving from Sheet C3.1 (image below):



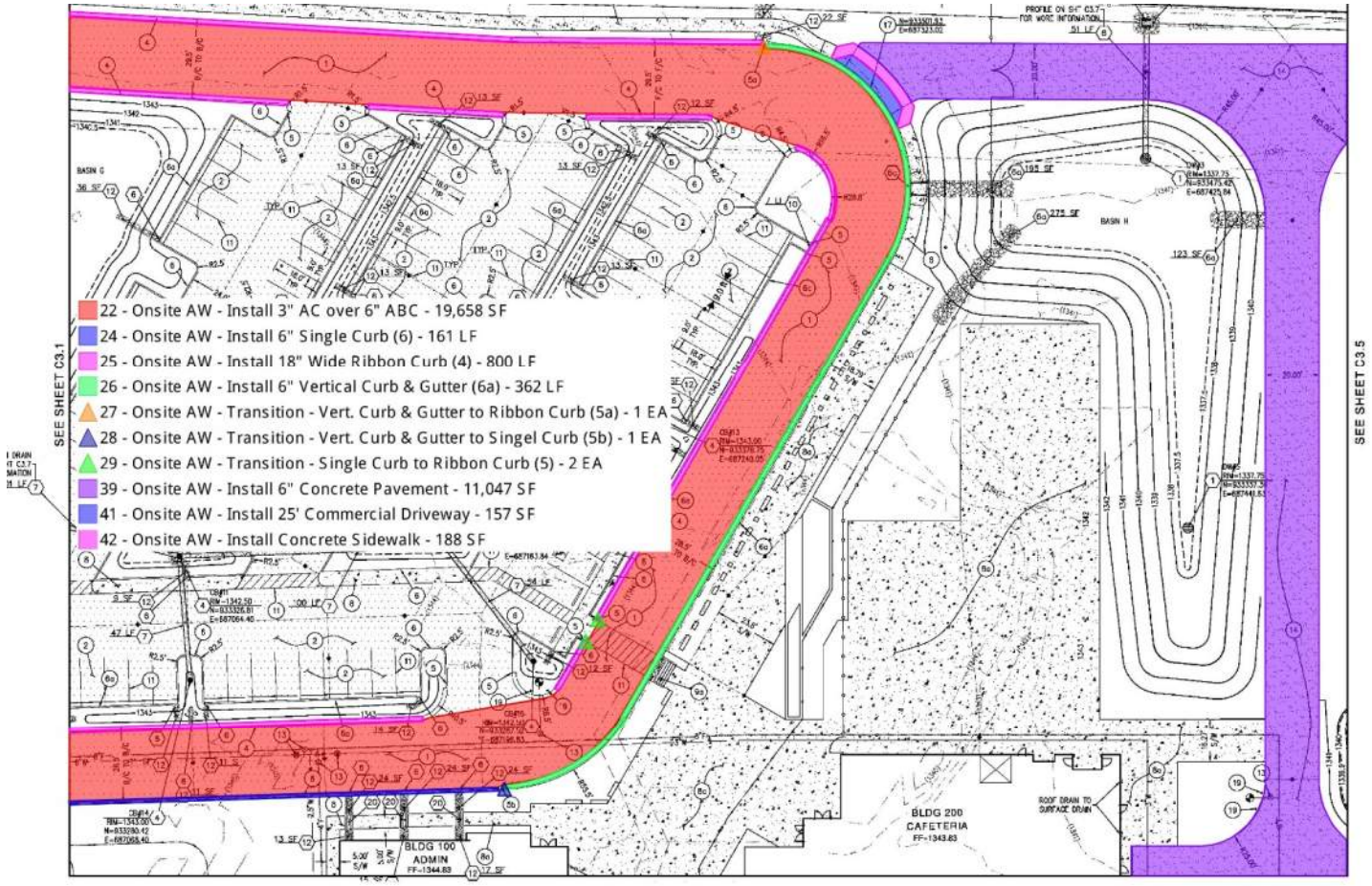
B2. Offsite Concrete from Sheet C3.2 (image below):



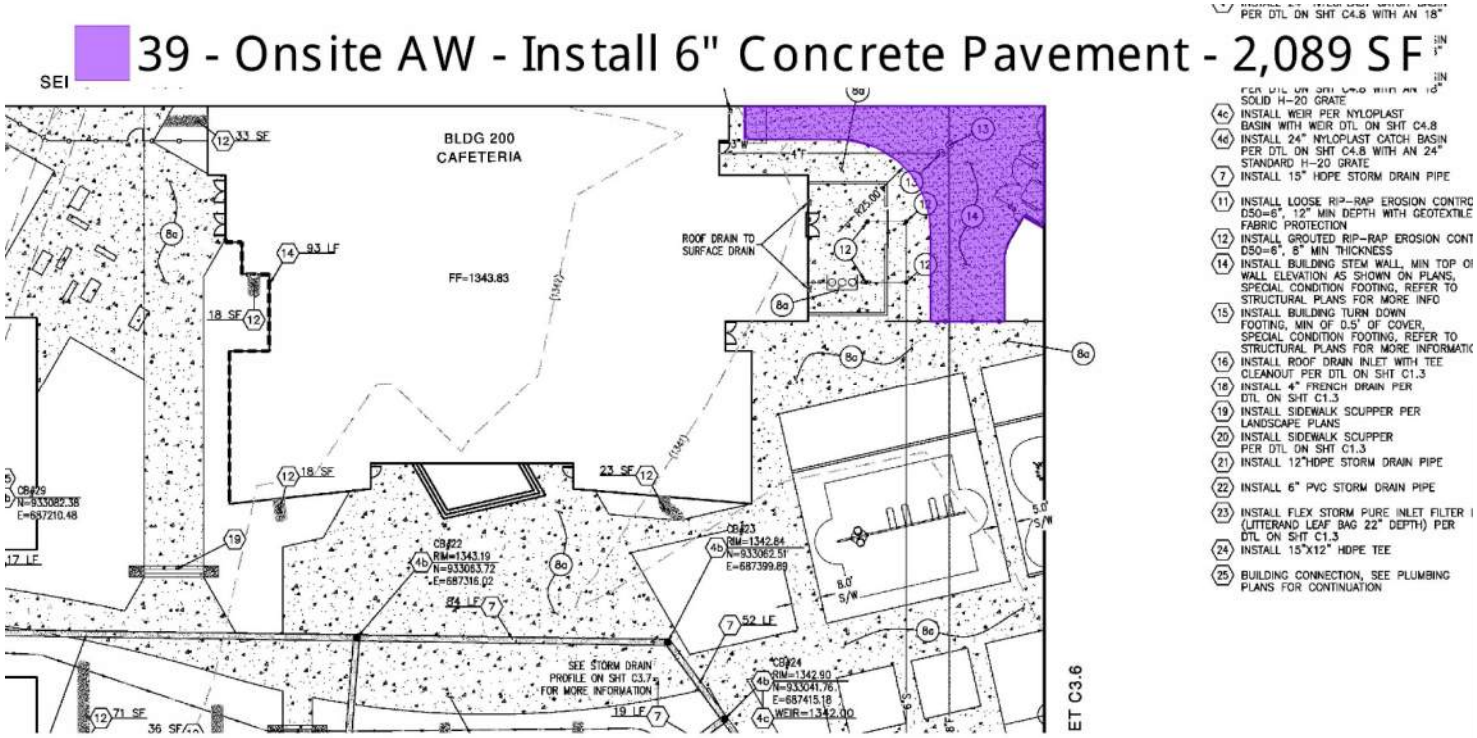
B3. Onsite Concrete and Paving from Sheet C3.1 (image below):



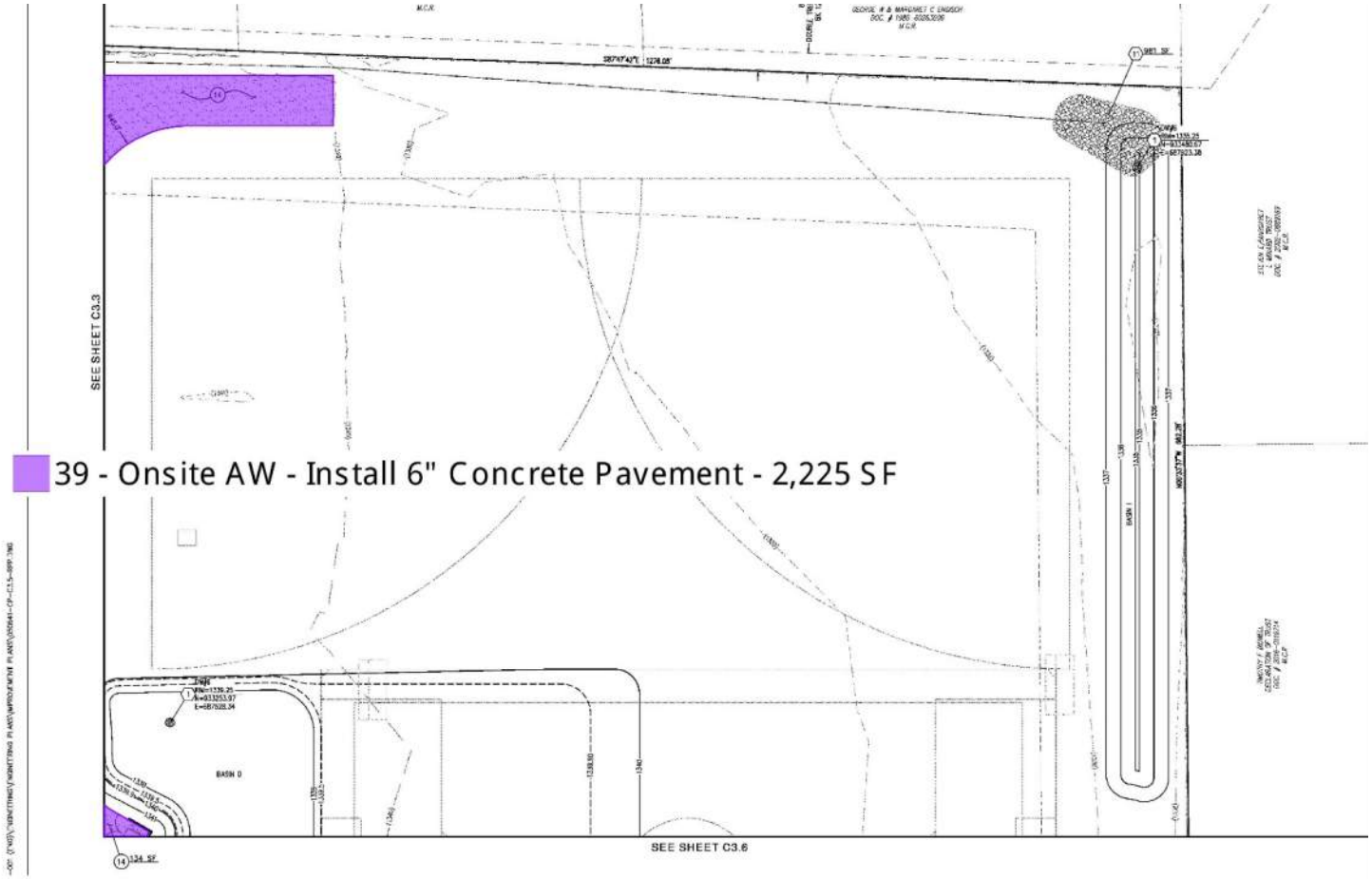
B4. Onsite Concrete and Paving from Sheet C3.3 (image below):



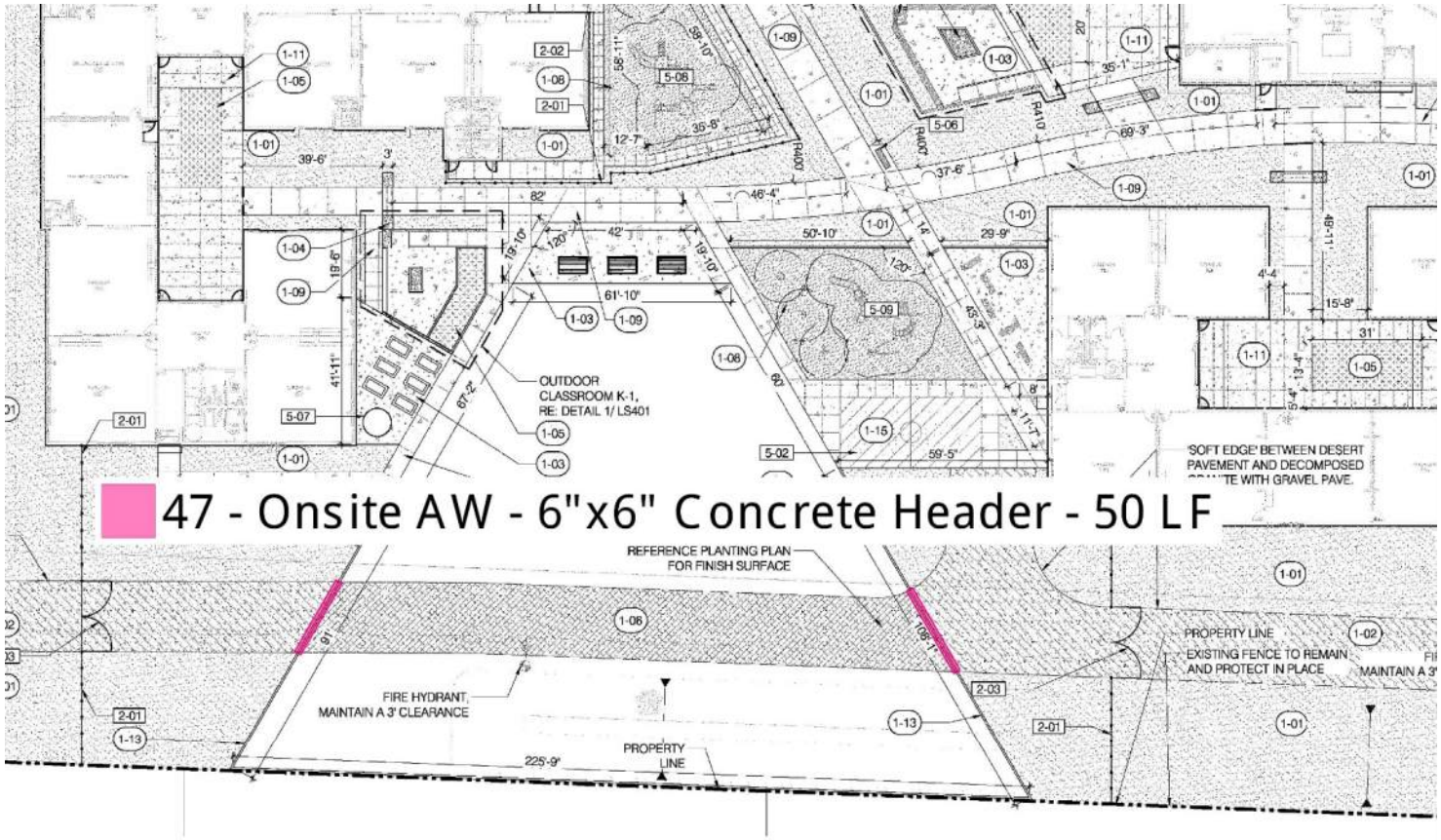
B5. Onsite Concrete from Sheet C3.4 (image below):



B6. Onsite Concrete from Sheet C3.5 (image below):

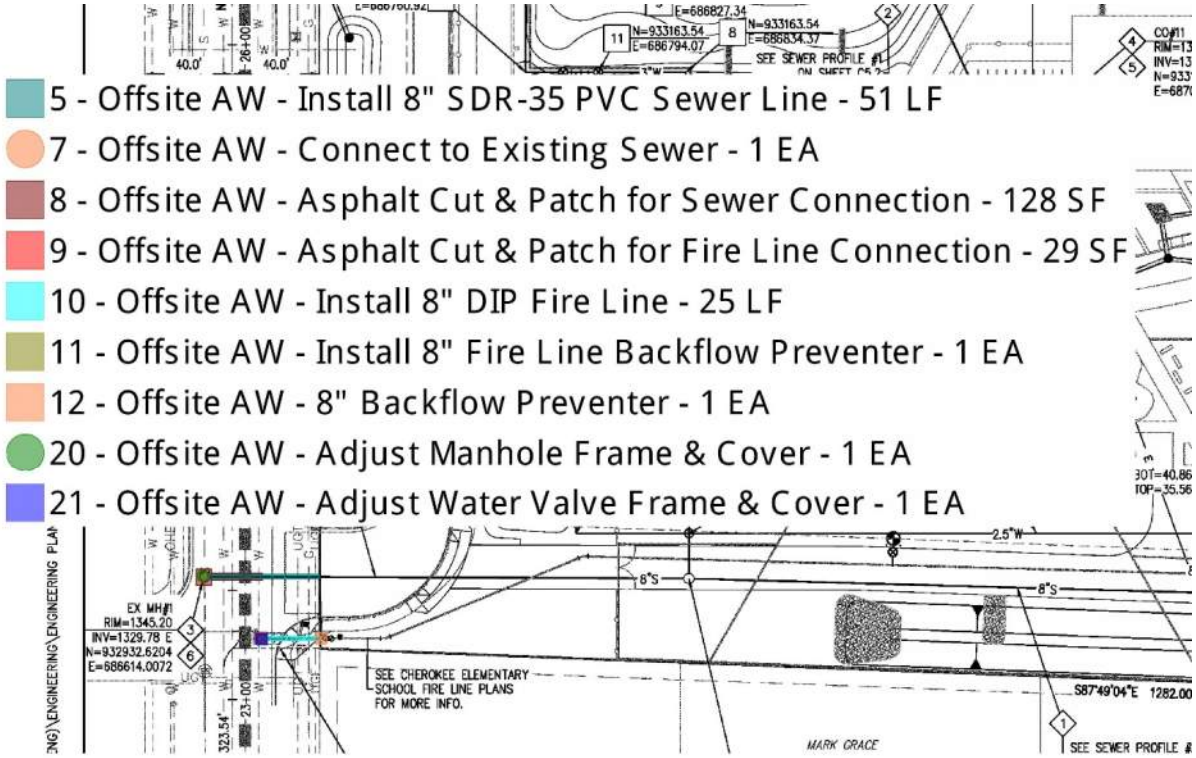


B6. Onsite Concrete from Sheet LM101 (image below):

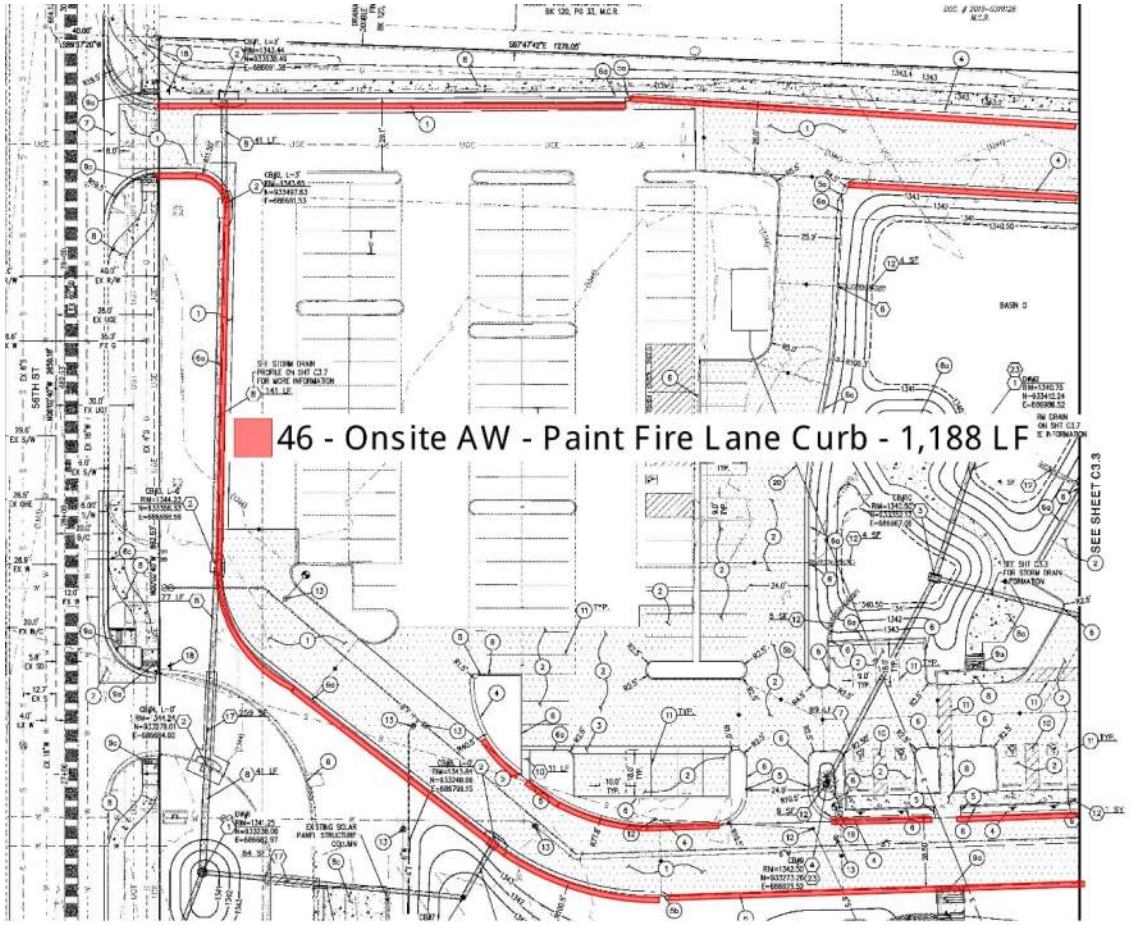


C. Utilities, Utility Connections and Signage

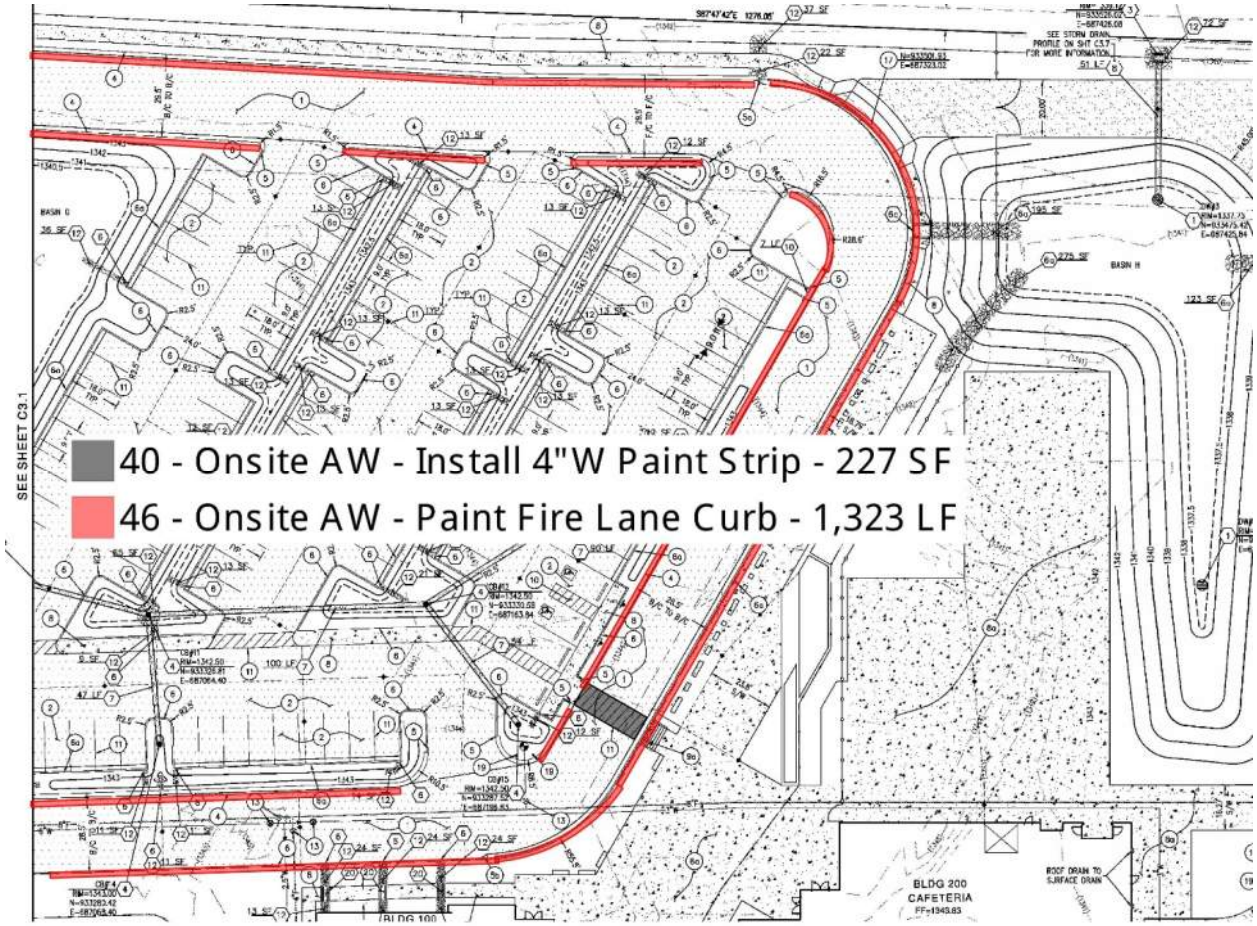
C1. Offsite Utility and Utility Connections from Sheet C5.1 (image below):



C2. Onsite Signage from Sheet C3.1 (image below):



C3. Onsite Signage from Sheet C3.3 (image below):

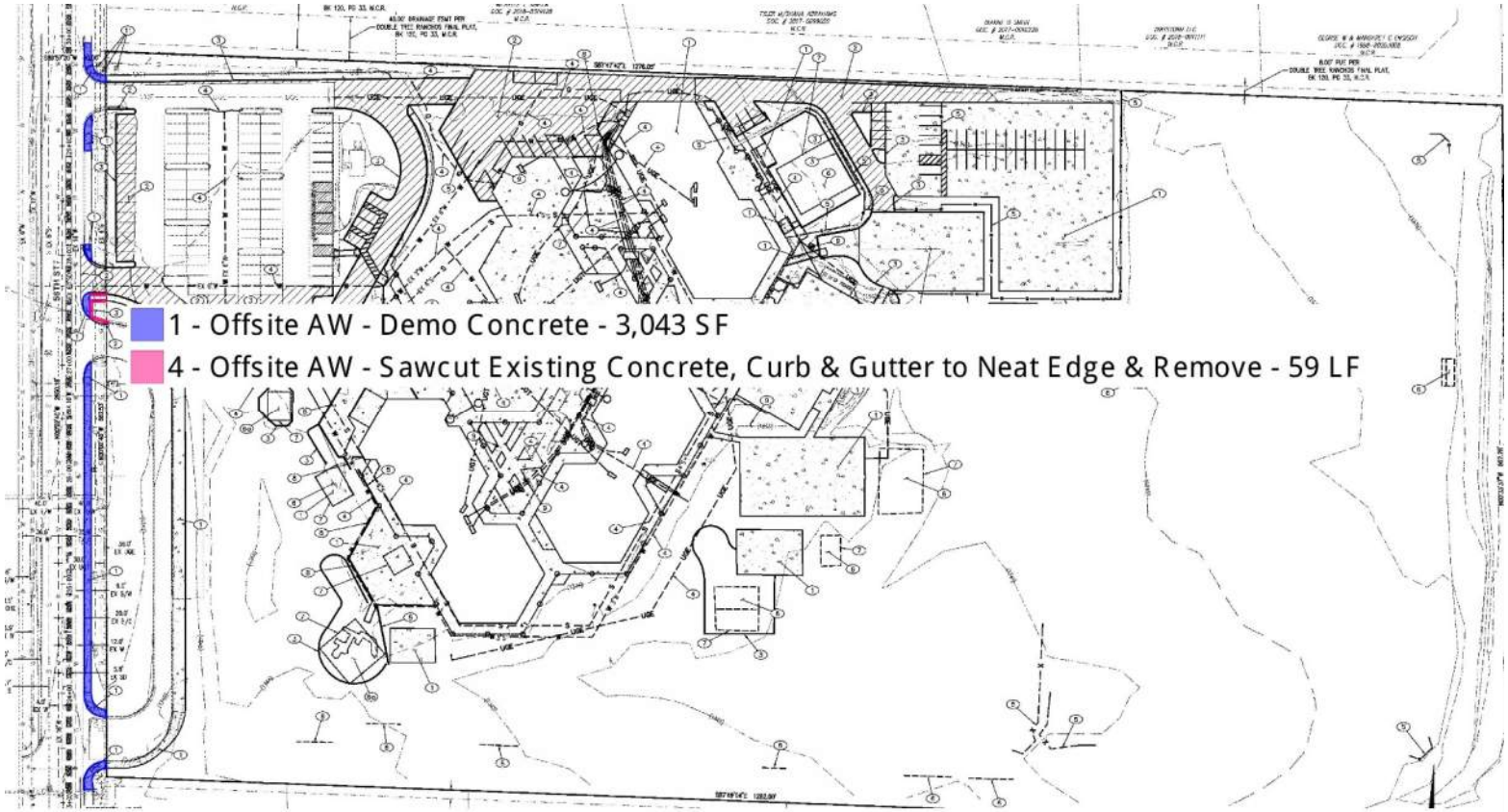


Basis of Adjacent Ways – Scottsdale USD Cherokee ES Rebuild

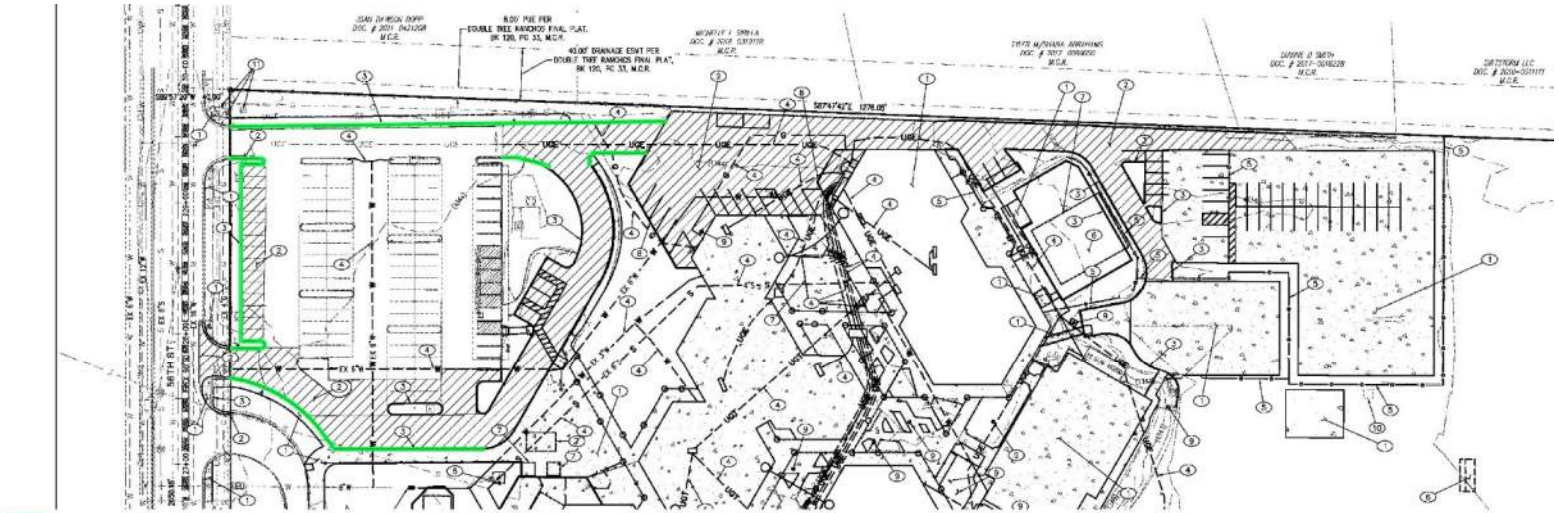
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A. Demolition & Landscaping

A1. Offsite Demolition from Sheet C2.1 (image below):

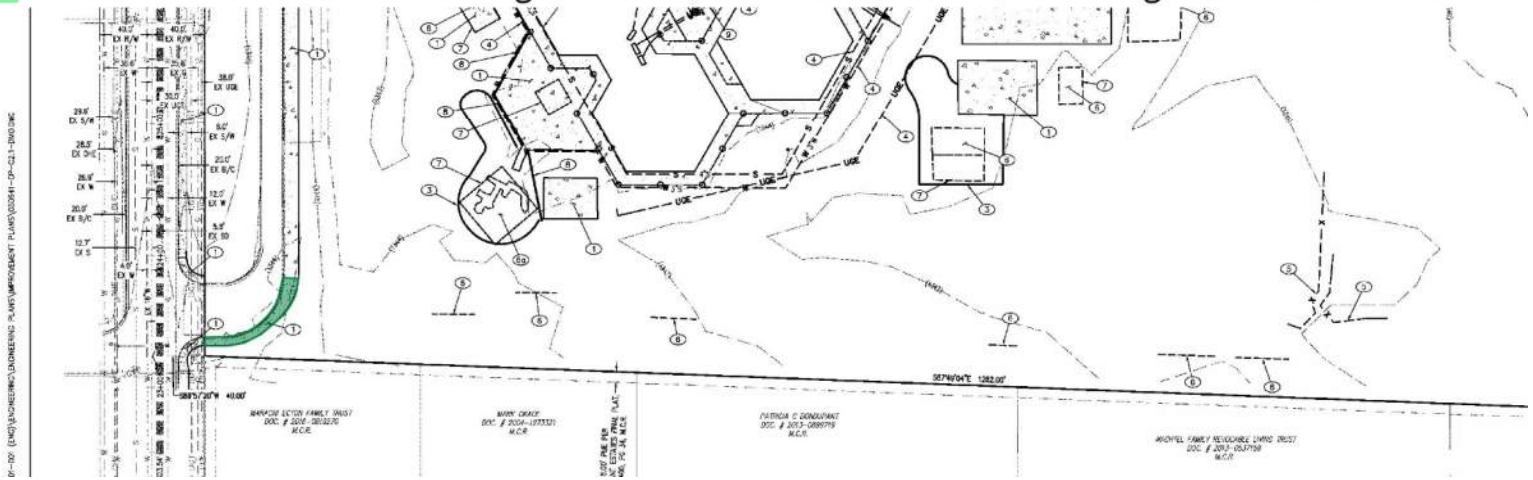


A2. Onsite Demolition from sheet C2.1 (image below):

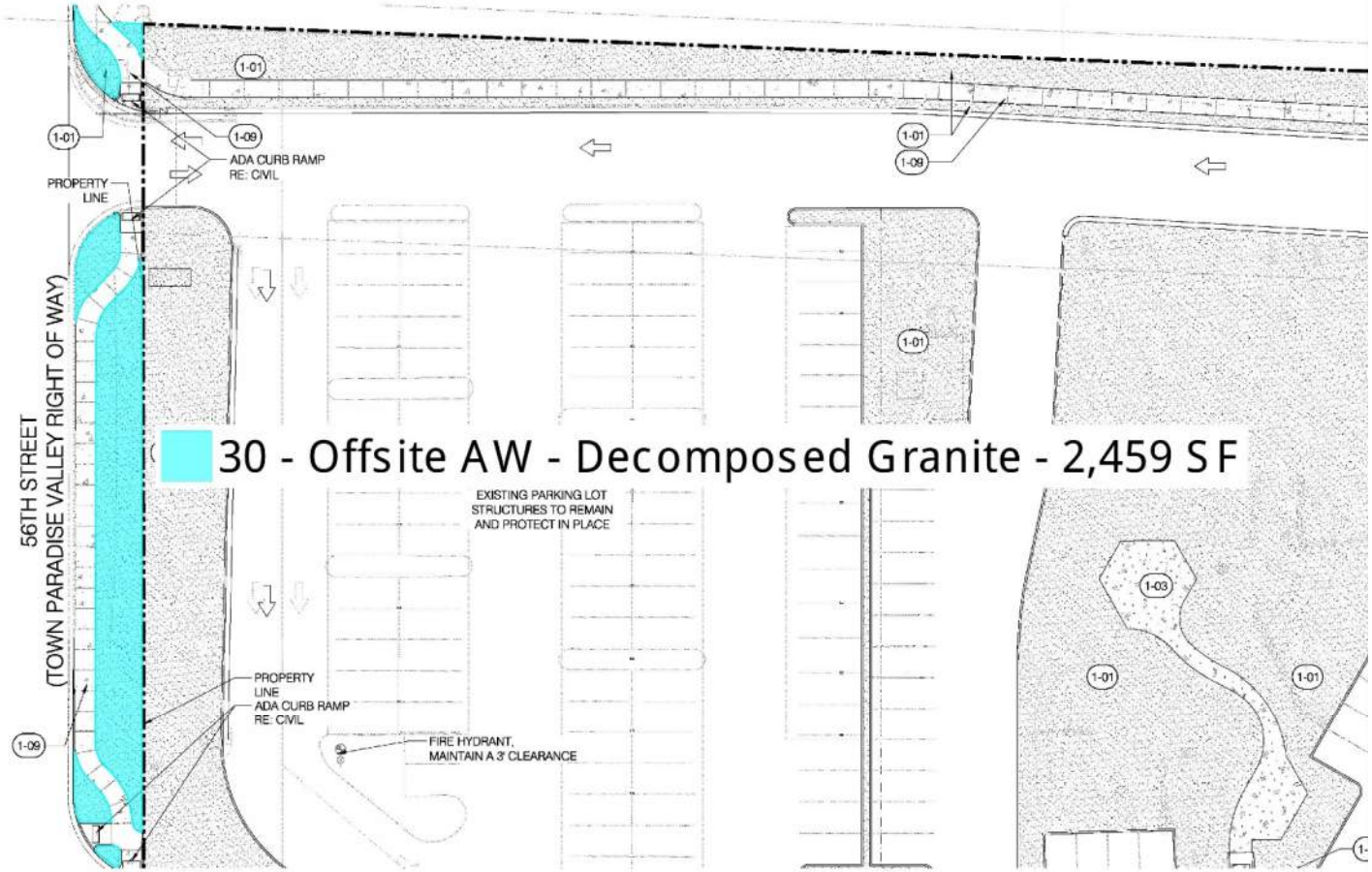


2 - Onsite AW - Demo Concrete Sidewalk - 764 SF

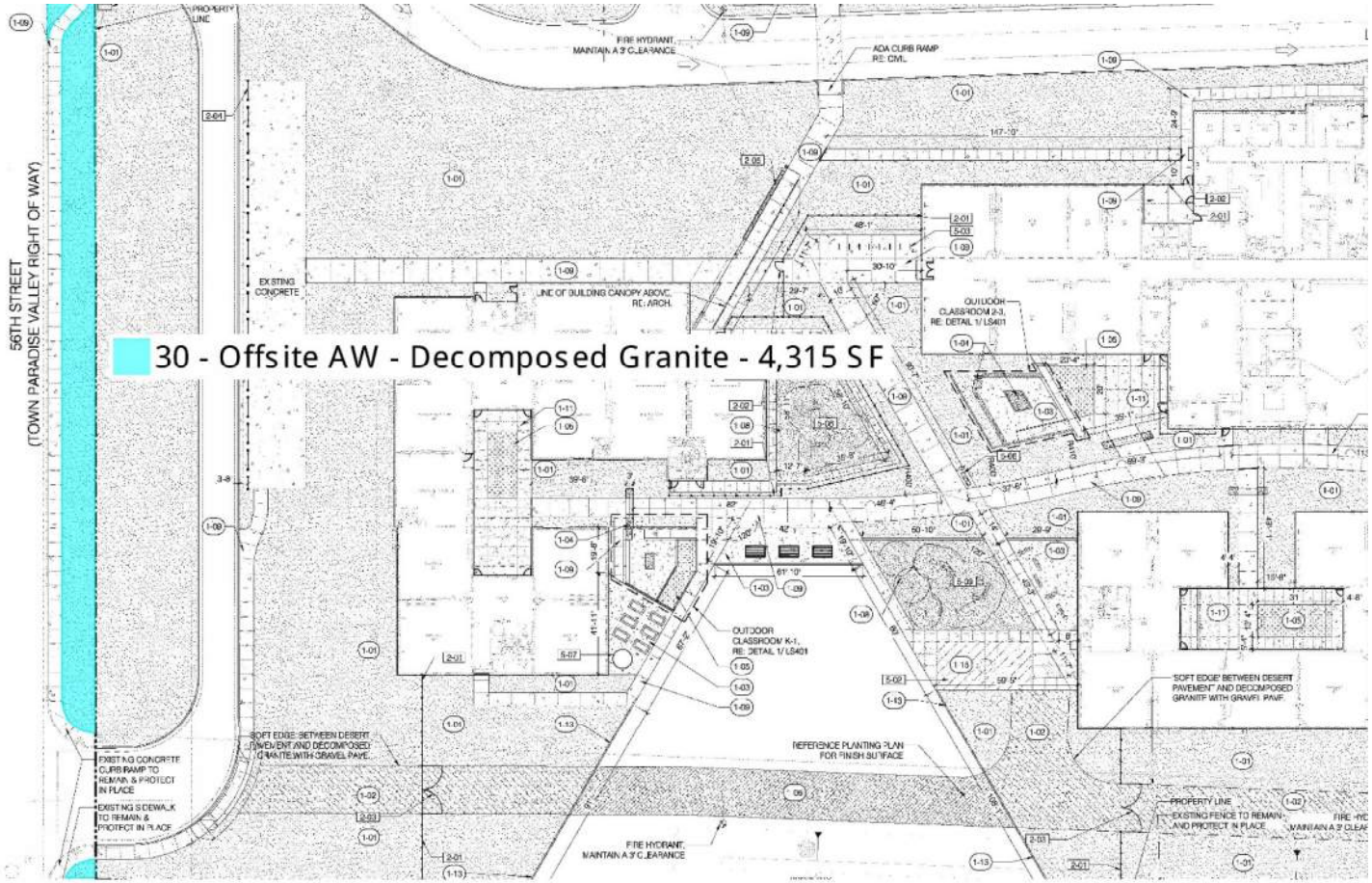
3 - Onsite AW - Sawcut Existing Concrete, Curb & Gutter to a Neat Edge & Remove - 869 LF



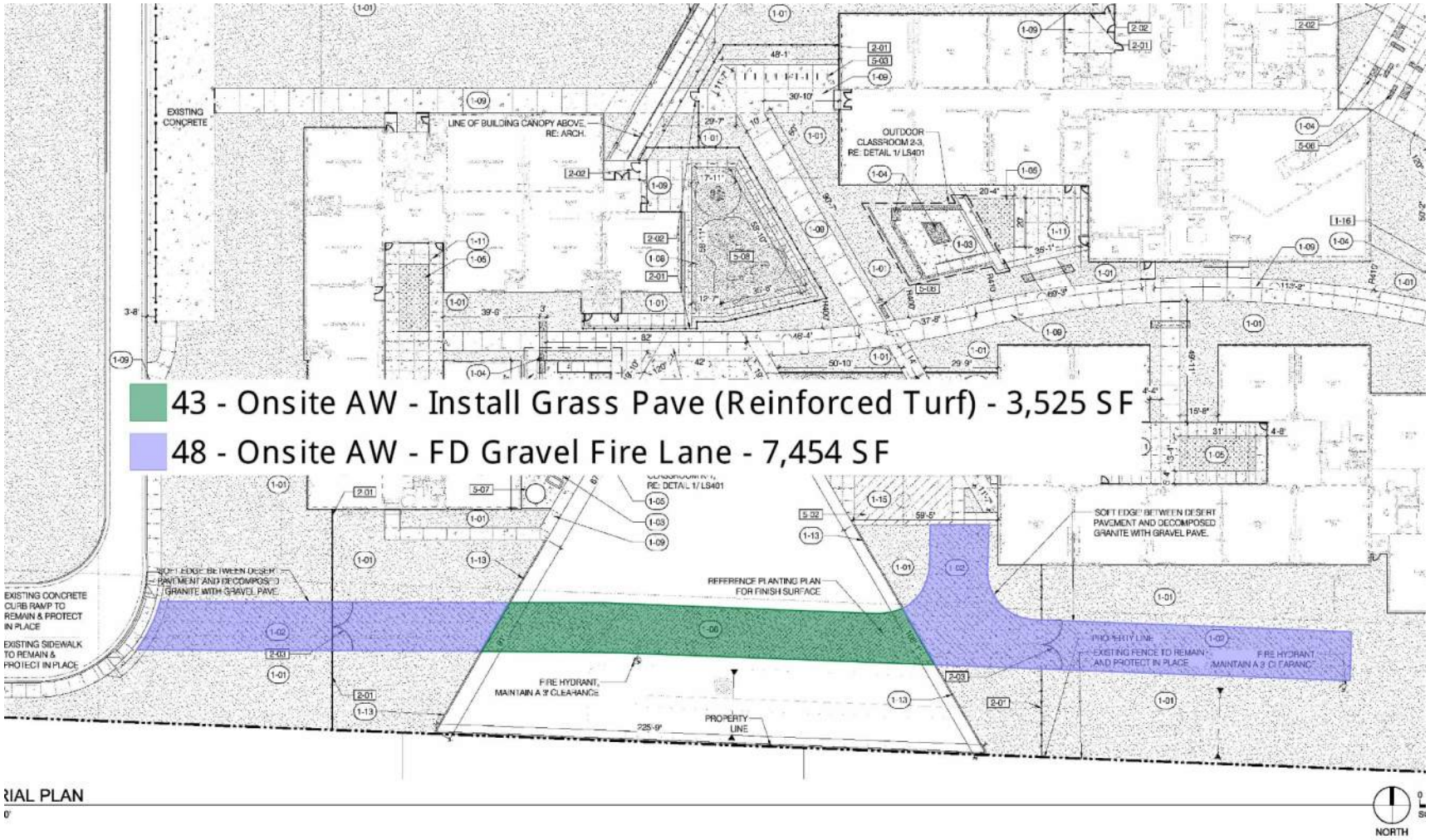
A3. Offsite Landscaping Materials from Sheet LM103 (image below):



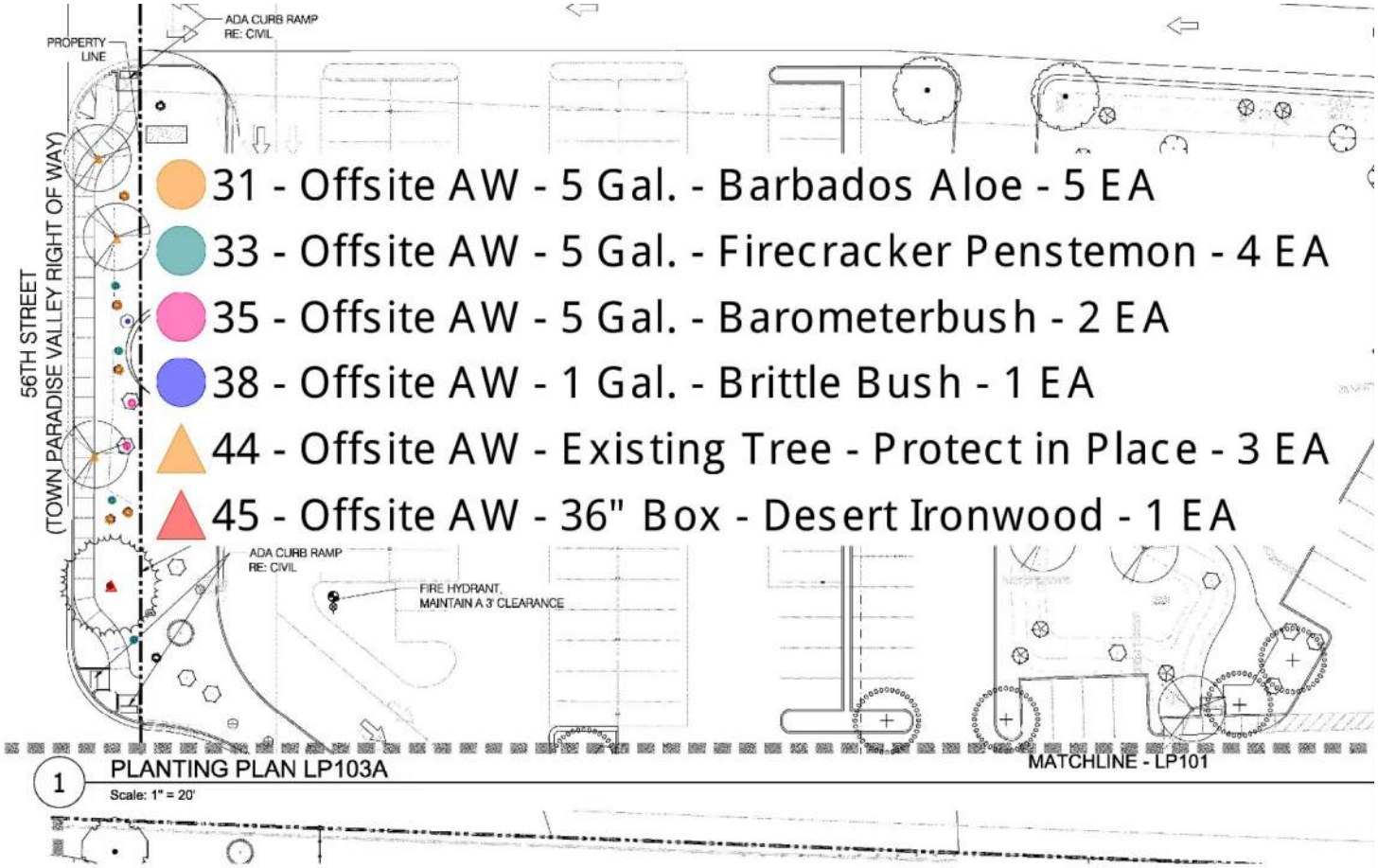
A4. Offsite Landscaping Materials from Sheet LM101 (image below):



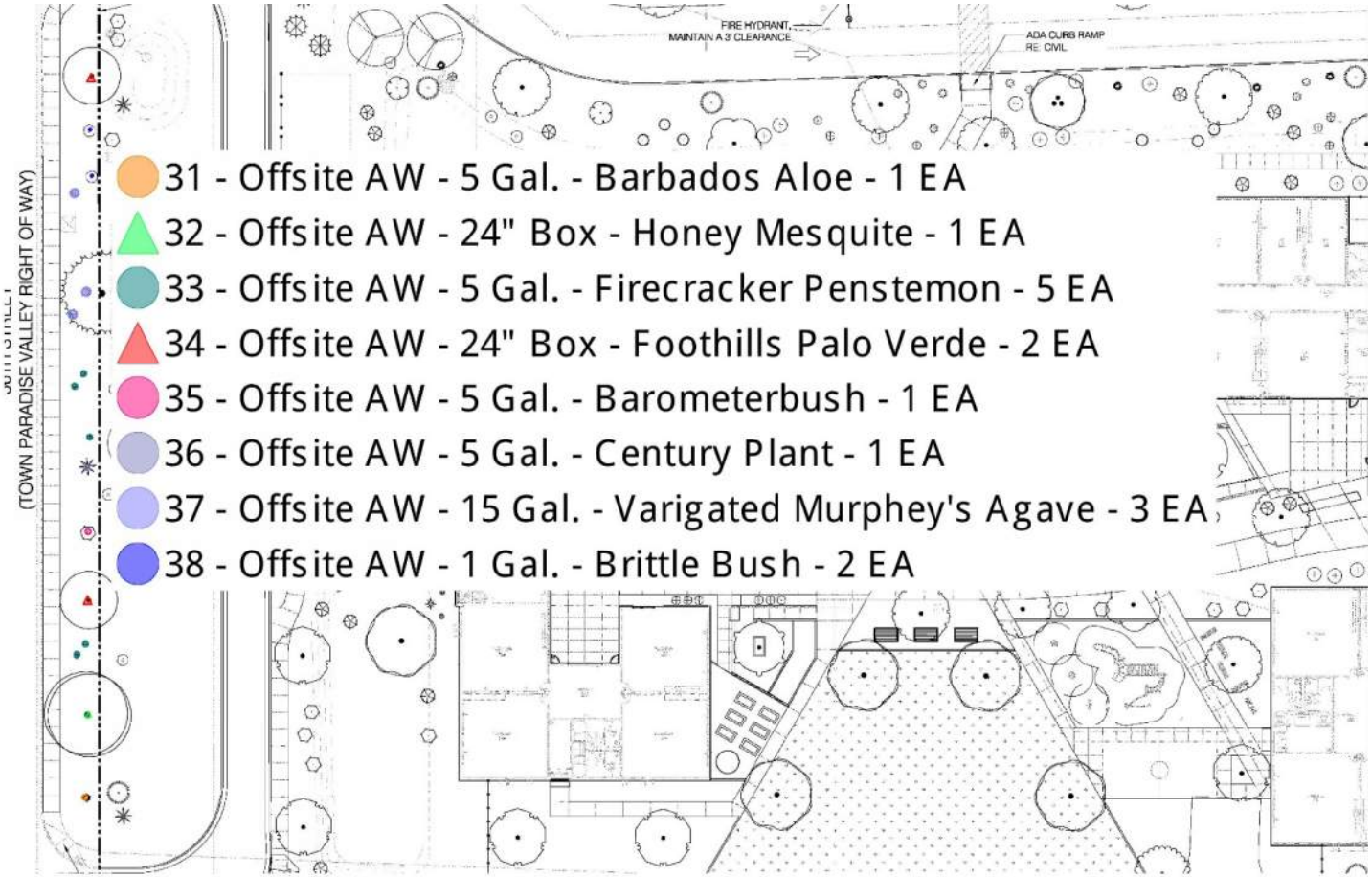
A5. Onsite Landscaping Materials from Sheet LM101 (image below):



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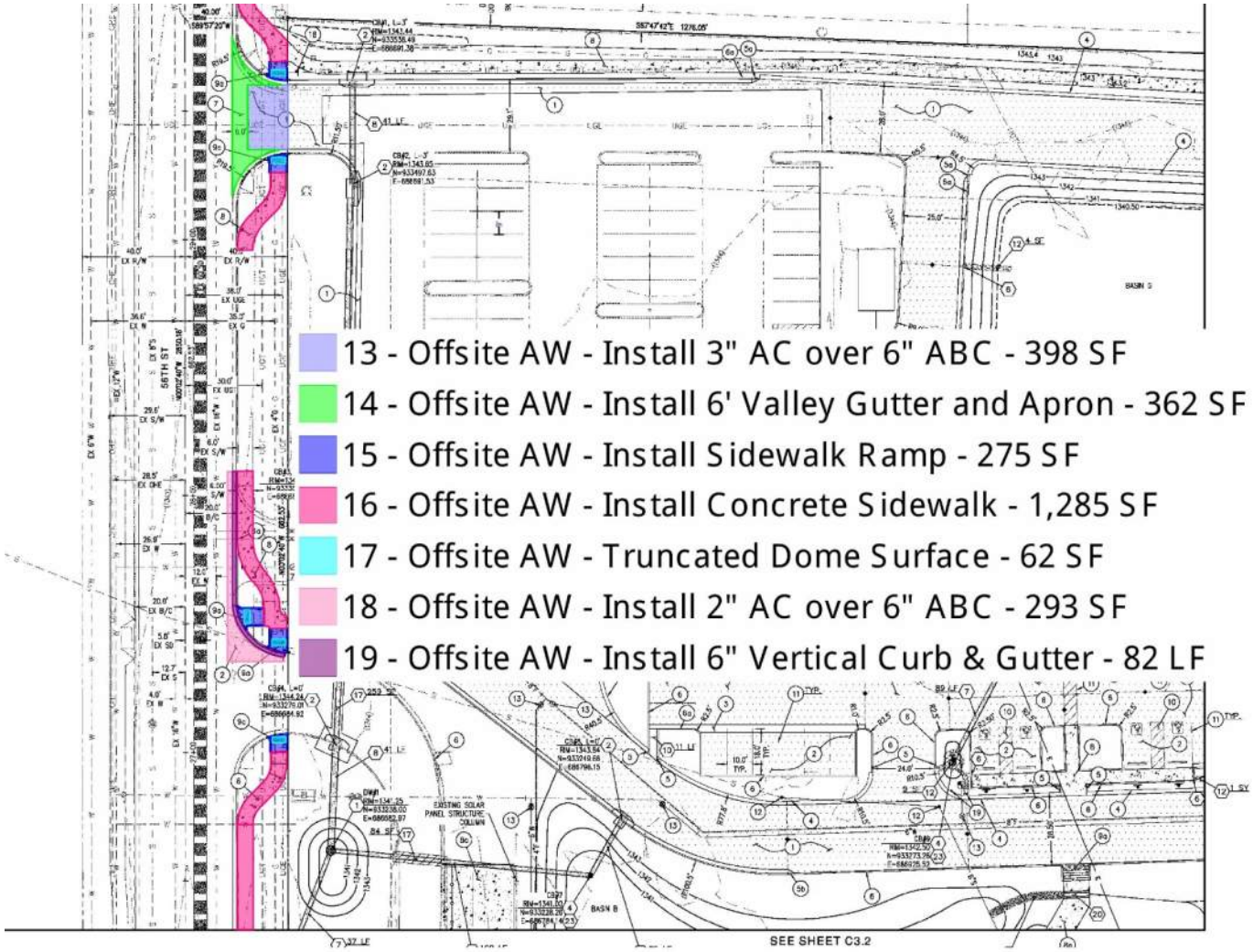


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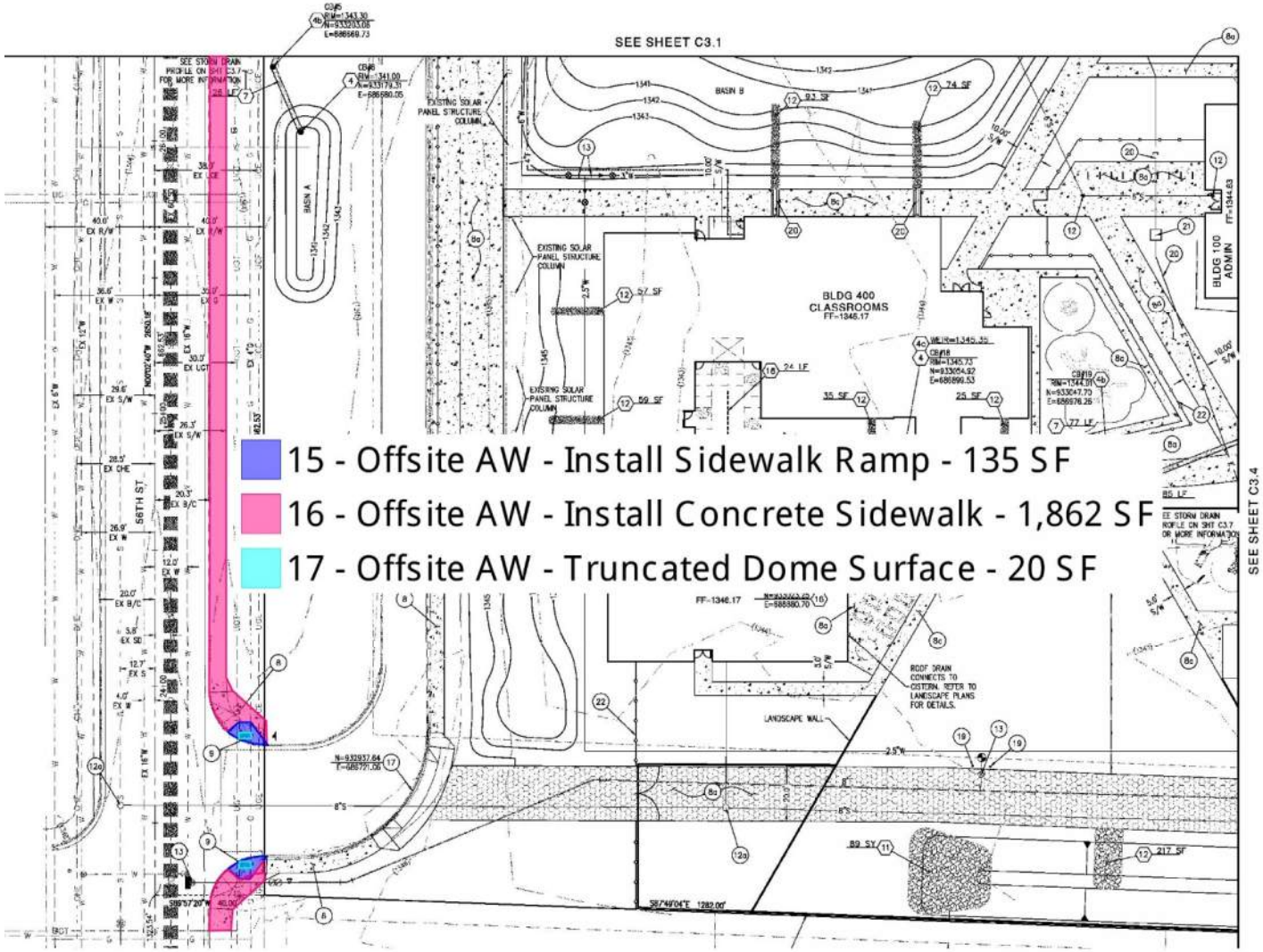


B. Site Concrete, Earthwork & Paving

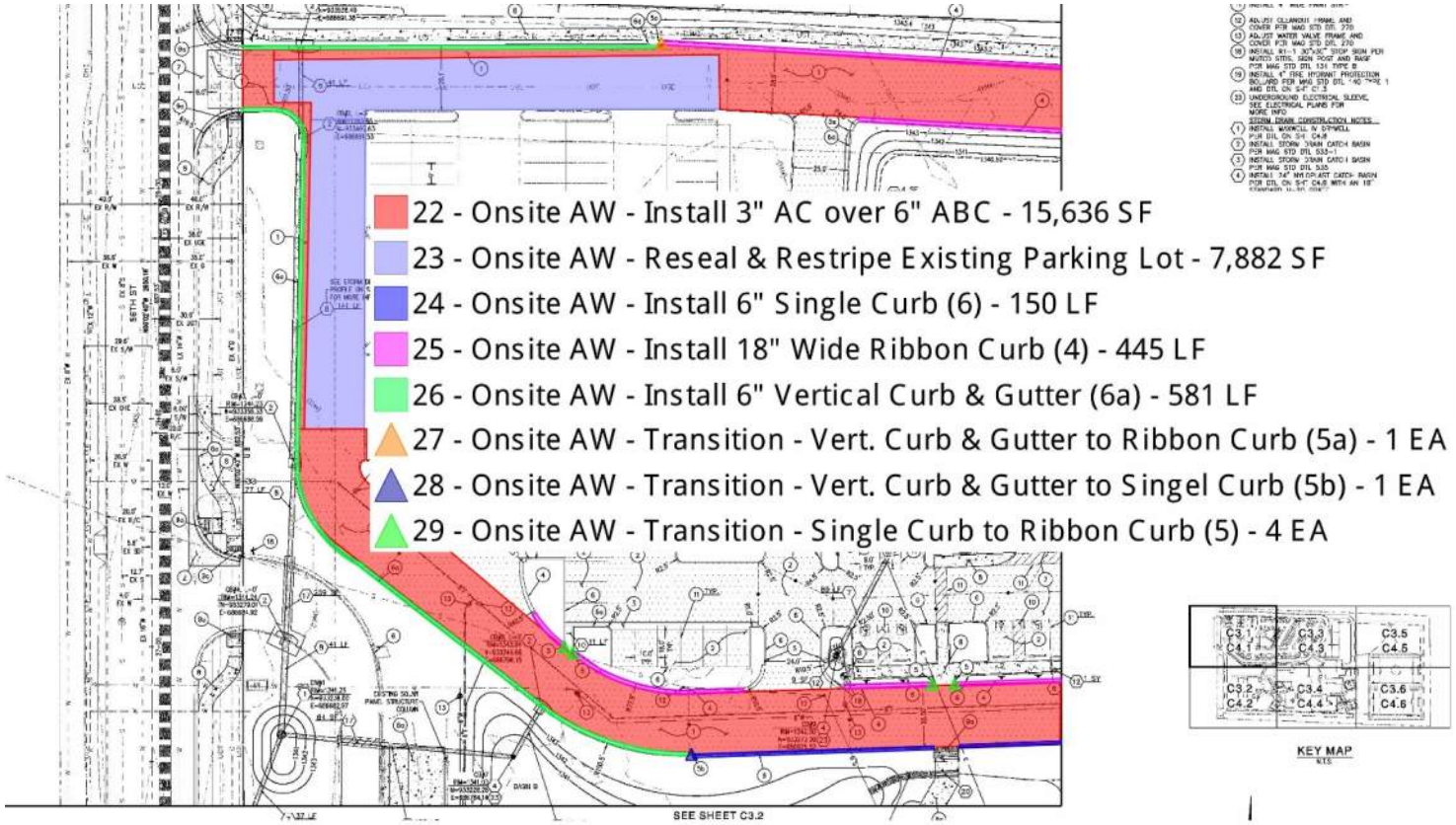
B1. Offsite Concrete and Paving from Sheet C3.1 (image below):



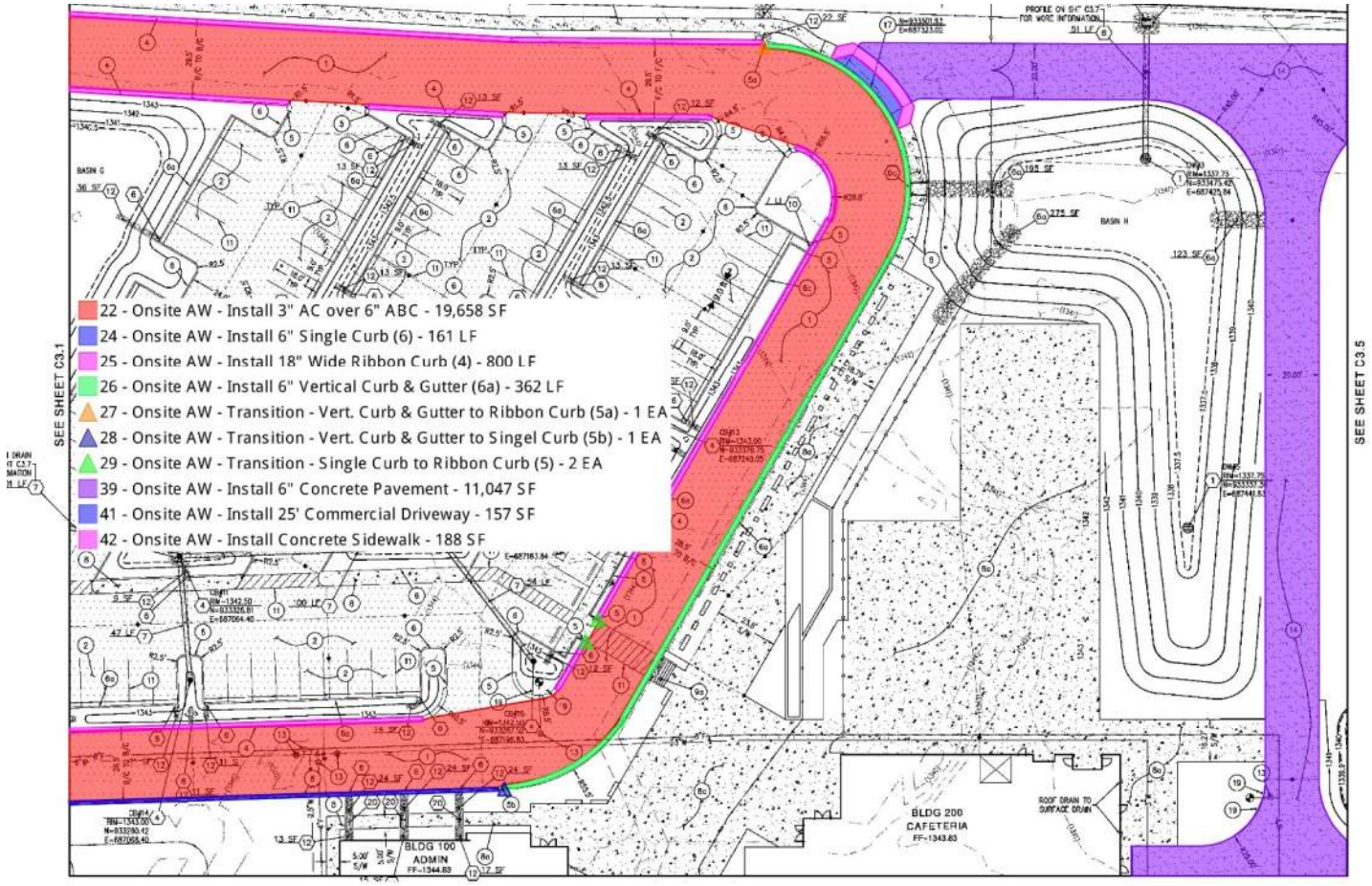
B2. Offsite Concrete from Sheet C3.2 (image below):



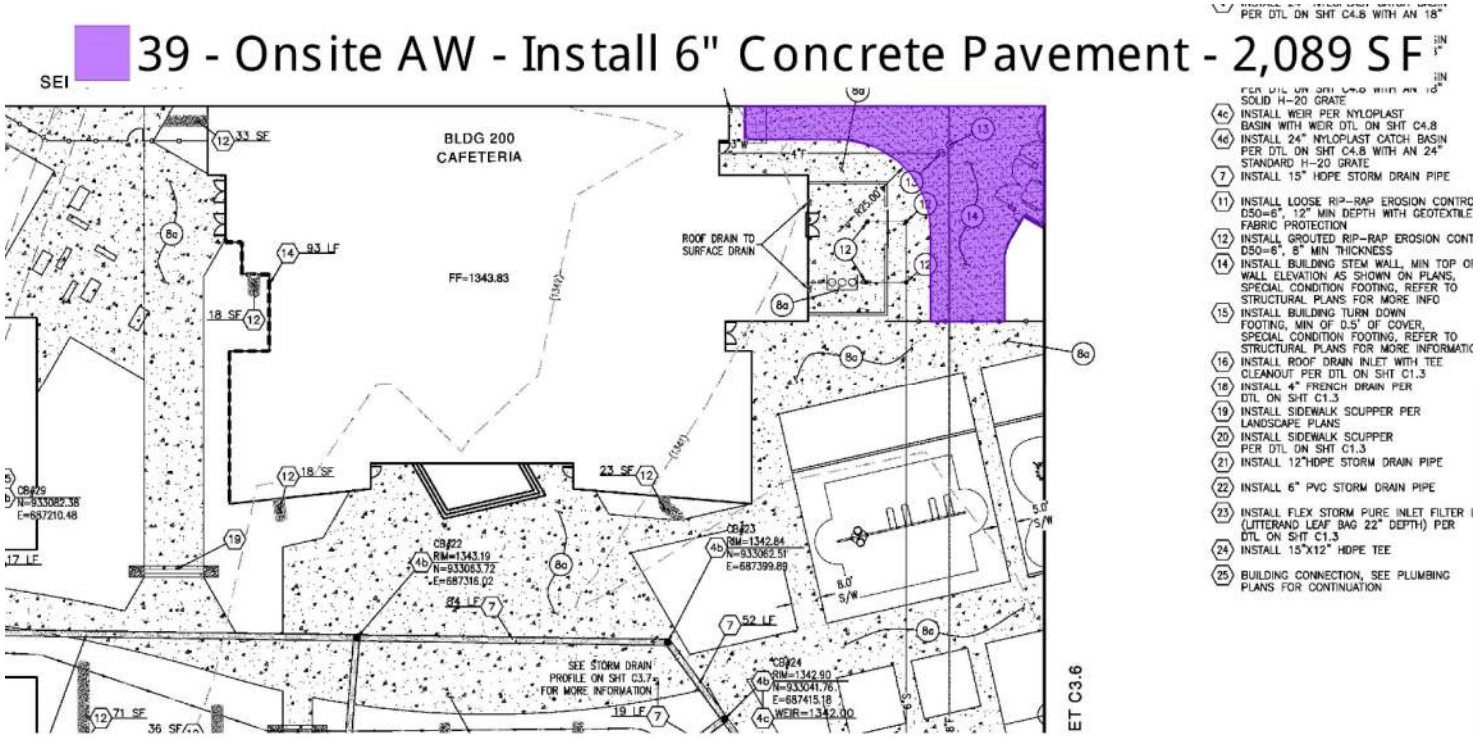
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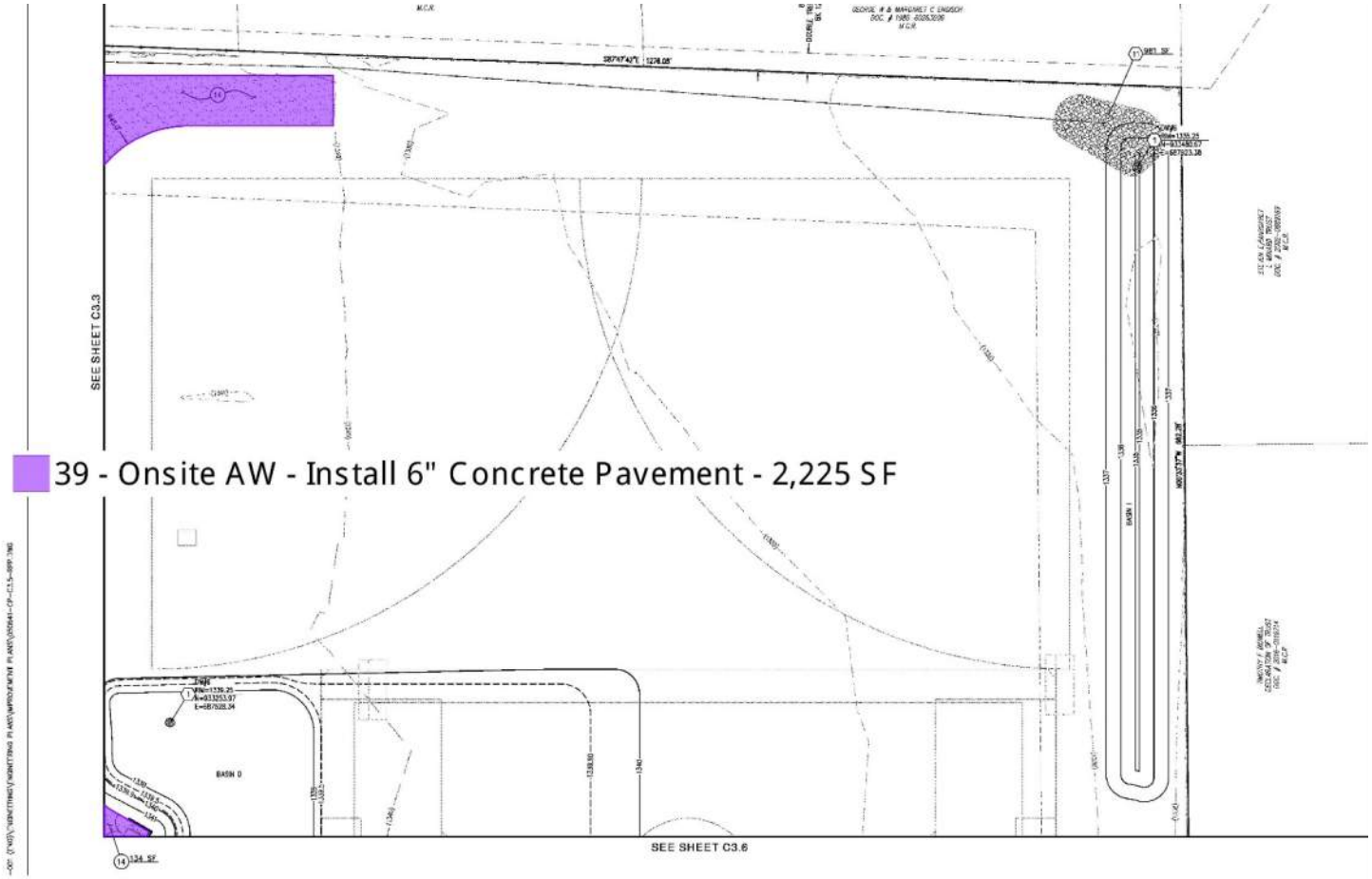
B4. Onsite Concrete and Paving from Sheet C3.3 (image below):



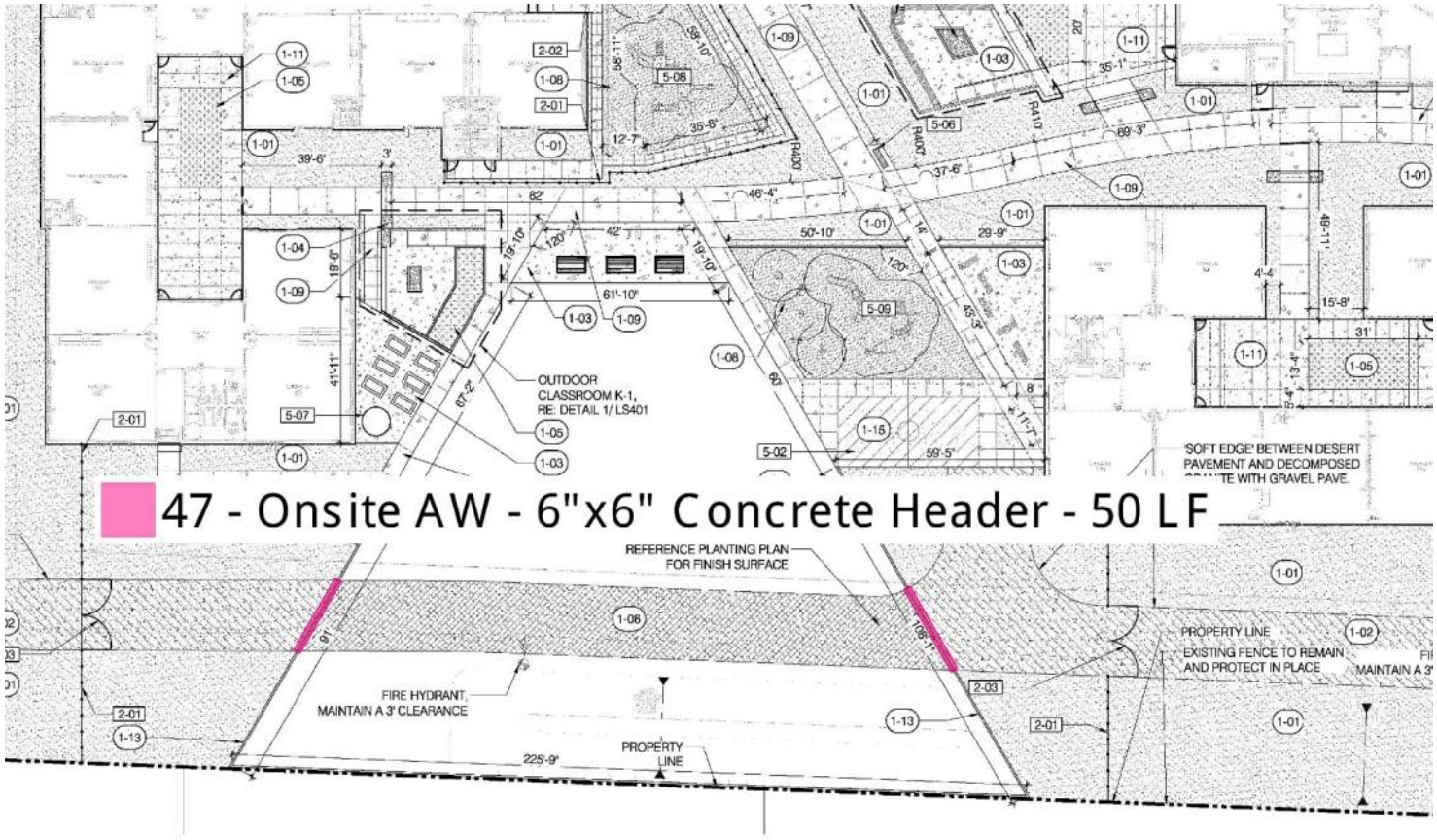
B5. Onsite Concrete from Sheet C3.4 (image below):



B6. Onsite Concrete from Sheet C3.5 (image below):



B6. Onsite Concrete from Sheet LM101 (image below):

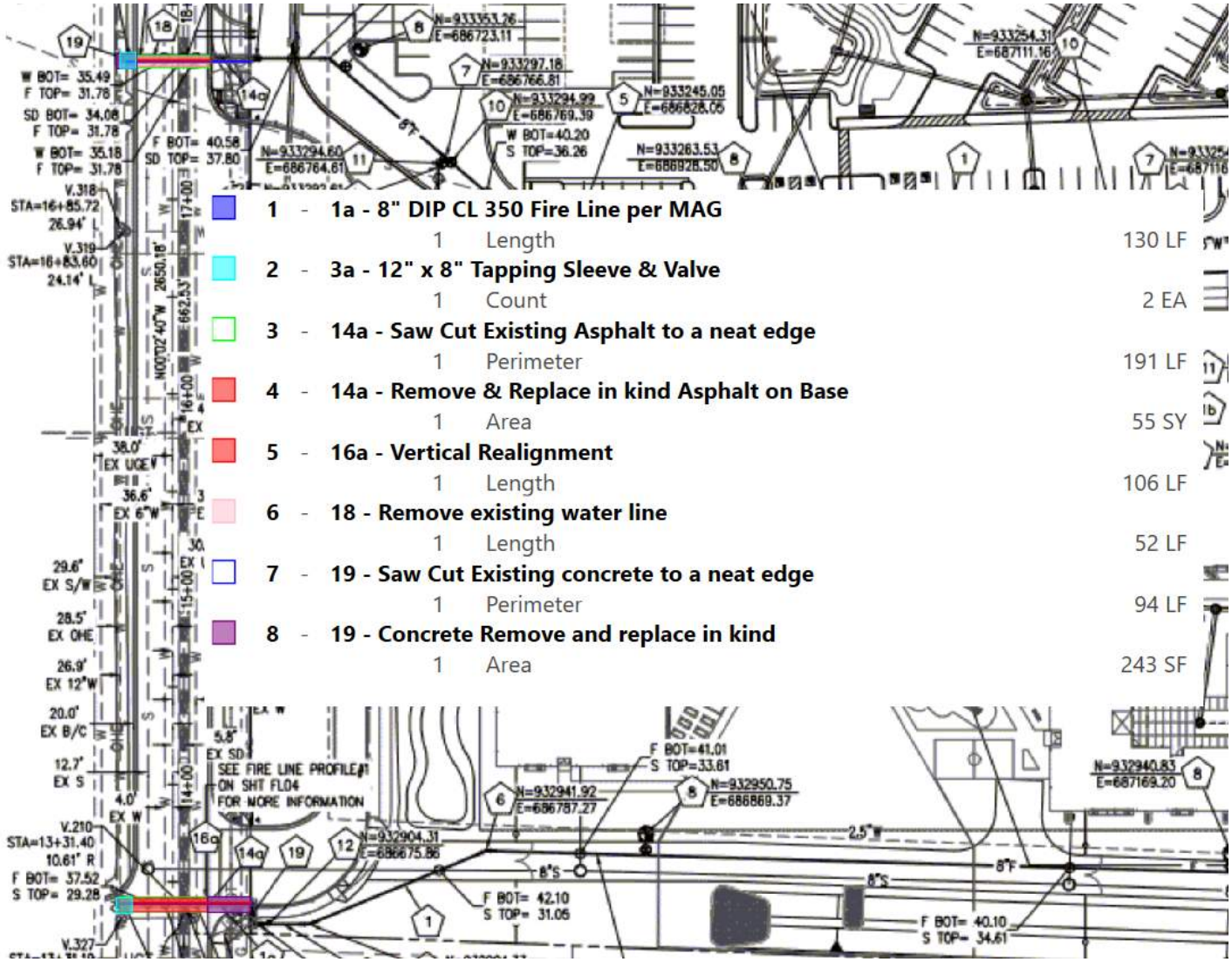


C. Utilities, Utility Connections and Signage

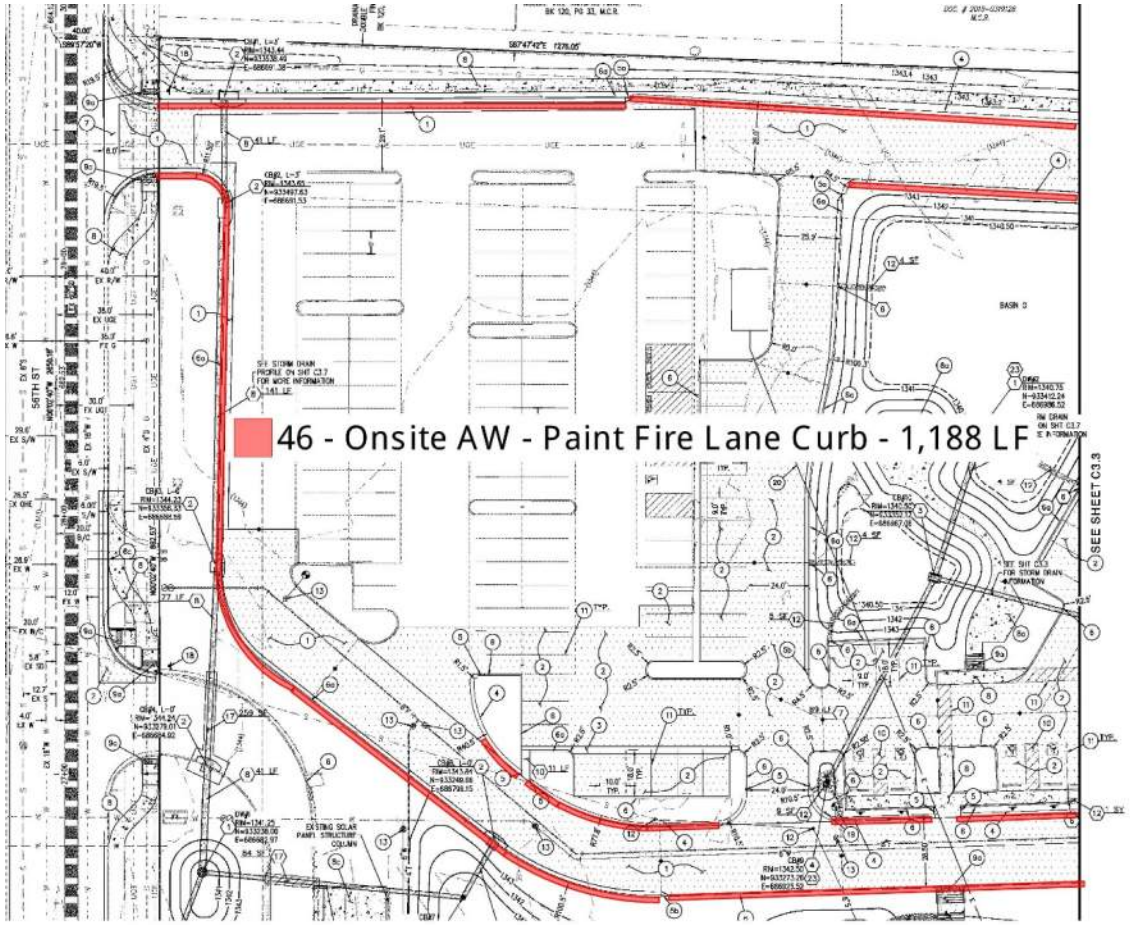
C1. Offsite Utility and Utility Connections from Sheet C5.1 (image below):



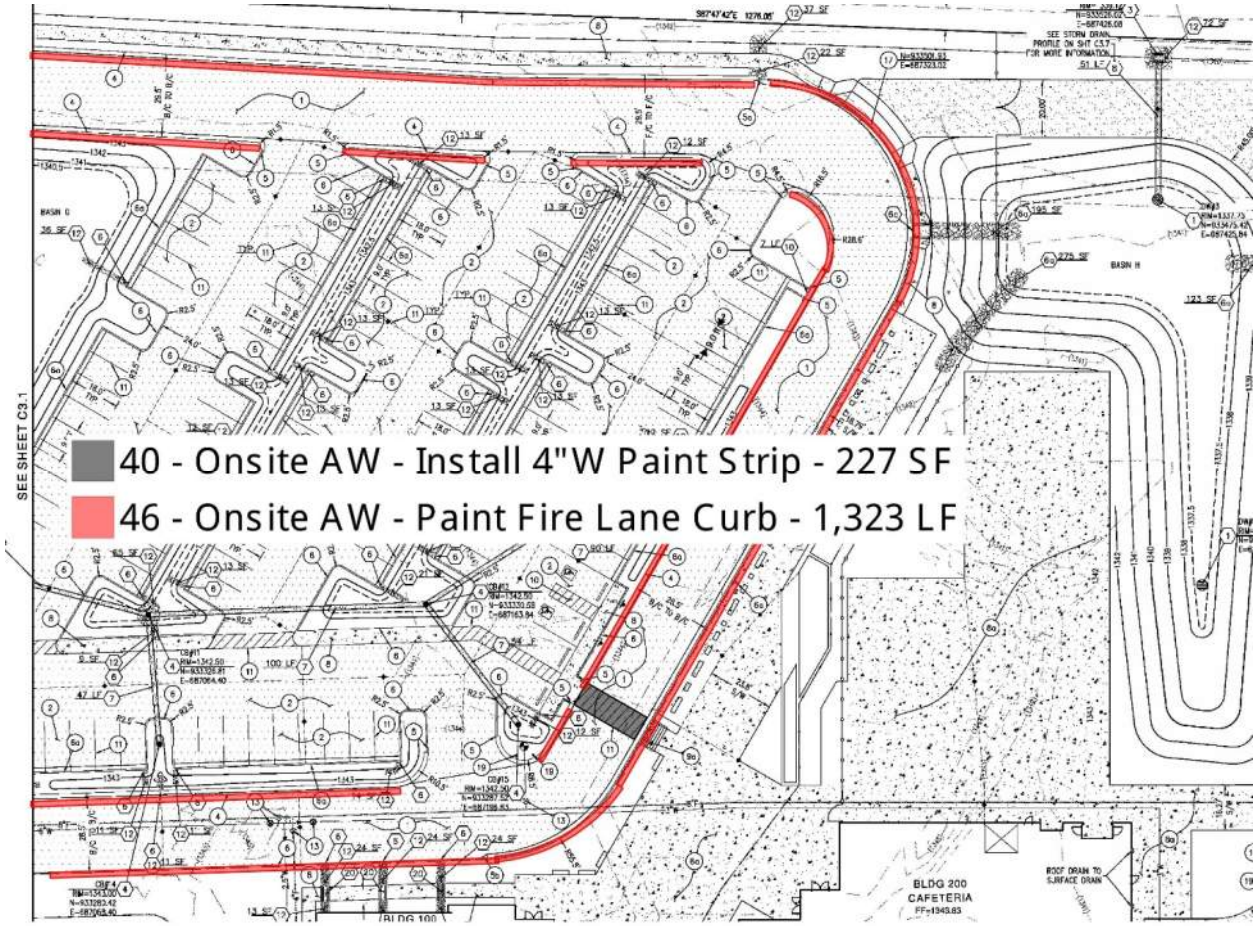
C1. Offsite Fire Line (two taps and realignment from Sheet FL03 dated 12.20.19(image below):



C2. Onsite Signage from Sheet C3.1 (image below):



C3. Onsite Signage from Sheet C3.3 (image below):




N 56th St
N 56th St
Cherokee
Elementary School