HUBBARD ENGINEERING GENERAL NOTES

- THE PLANS PREPARED FOR THIS PROJECT PRESENT A DESCRIPTION OF THE WORK TO BE ACCOMPLISHED. THE CONTRACTOR SHALL VISIT THE PROJECT SITE AND DETERMINE, FROM HIS OWN INSPECTION, THE CONDITIONS UNDER WHICH IT IS TO BE PERFORMED. THE CONTRACTOR, BY MAKING HIS BID, REPRESENTS THAT HE HAS VISITED THE SITE AND FAMILIARIZED HIMSELF WITH LOCAL CONDITIONS. THE TYPE OF WORK TO BE PERFORMED, EVALUATED THE DIFFICULTY OF PERFORMING THE REQUIRED TASKS, AND THE LABOR, EQUIPMENT AND MATERIAL THAT ARE REQUIRED TO PROVIDE A COMPLETE
- 2. A THOROUGH ATTEMPT HAS BEEN MADE TO SHOW THE LOCATIONS OF ALL UNDERGROUND OBSTRUCTIONS AND UTILITY LINES IN THE WORK AREA; HOWEVER, THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE TO OBSTRUCTIONS AND UTILITY LINES ENCOUNTERED DURING CONSTRUCTION AND SHALL DETERMINE THE EXACT LOCATION OF SAID UTILITIES IN ADVANCE OF TRENCHING. THE ENGINEER WILL NOT GUARANTEE ANY ELEVATIONS OR LOCATIONS OF EXISTING UNDER-GROUND UTILITIES SHOWN ON THESE PLANS.
- MYLAR PLAN SHEETS FOR AS—BUILTS MAY BE PURCHASED FROM HUBBARD ENGINEERING. THE COST OF THIS ITEM SHALL BE INCLUDED IN THE
- 4. ALL HANDICAP ACCESS RAMPS, PARKING STALLS, AND DELINEATED WALKWAYS SHALL BE CONSTRUCTED AND MARKED IN ACCORDANCE WITH CURRENT FEDERAL AND/OR LOCAL A.D.A. STANDARDS AND REQUIREMENTS. THE CONTRACTOR SHALL COORDINATE WITH THE LOCAL AUTHORITIES PRIOR TO CONSTRUCTING AND/OR STRIPING TO CONFIRM CURRENT REQUIREMENTS. SLOPES WITHIN THE LIMITS OF HANDICAPPED PARKING SPACES SHALL NOT EXCEED 2% IN ANY DIRECTION.
- ALL SLOPES HIGHER THAN ONE (1) FOOT AND STEEPER THAN 20:1, UNLESS LINED WITH TURF, SHALL BE COMPACTED AND TESTED PER MAG SPECIFICATION 215. WE RECOMMEND RE-COMPACTION PER MAG SPECIFICATION 215 AFTER INSTALLATION OF IRRIGATION LINES, AND WE RECOMMEND STABILIZATION OF DECOMPOSED GRANITE.
- UNLESS SPECIALLY NOTED OTHERWISE, THESE PLANS SHOULD BE USED FOR HORIZONTAL AND VERTICAL LAYOUT OF CIVIL ELEMENTS ONLY. (TYPICALLY WATER, FIRE, SEWER AND STORM DRAIN LINES, VALVES, FIRE HYDRANTS, MANHOLES, CATCH BASINS, HEADWALLS, DRYWELLS, ETC.). FOR ALL OTHER HORIZONTAL LAYOUT (BUILDINGS, CURBS, WALKS, ETC.) SEE ARCHITECT'S PLAN.
- REMOVE FLOOD IRRIGATION STRUCTURES OUTSIDE THE ATHLETIC FIELDS.

CITY OF PHOENIX GRADING AND DRAINAGE NOTES

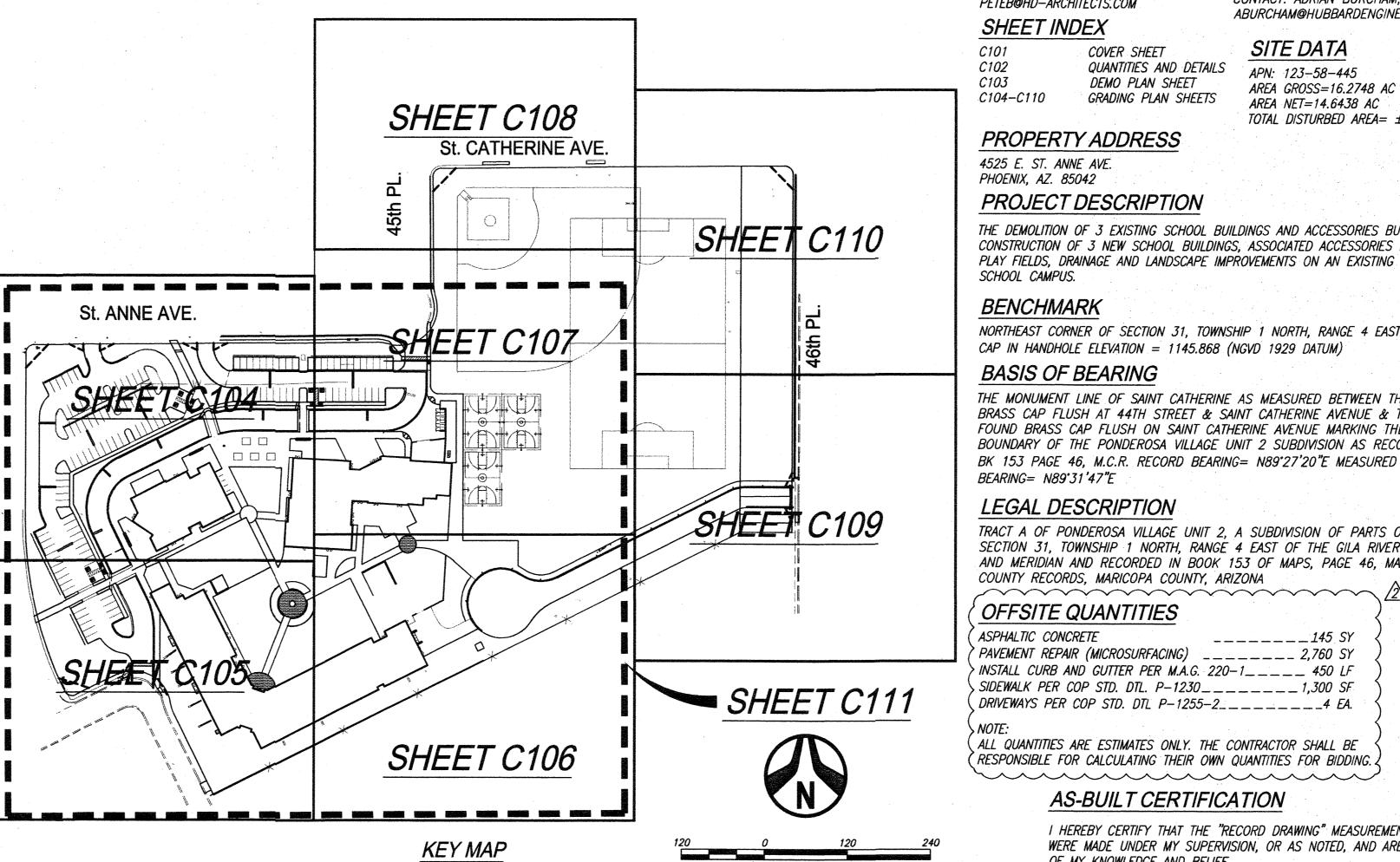
- A GRADING PERMIT IS REQUIRED UNDER CHAPTER 32A OF THE PHOENIX CITY CODE.
- WHEN HAUL PERMITS ARE REQUIRED, THEY MUST BE OBTAINED PRIOR TO OR CONCURRENTLY WITH THE GRADING AND DRAINAGE PERMIT. EXCAVATING CONTRACTOR MUST GIVE LOCATION FOR WASTING EXCESS EXCAVATION AND A LETTER FROM OWNER GIVING PERMISSION FOR DUMPING PRIOR TO STARTING ON-SITE CONSTRUCTION. IF EXCESS EXCAVATION EXCEEDS 100 CUBIC YARDS, THE DISPOSAL SITE WILL ALSO REQUIRE A GRADING AND DRAINAGE PERMIT
- 4. PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY ON SITE AND/OR OFF-SITE CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811
- STAKING PAD ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO
- STAKING FINISH FLOOR ELEVATIONS IS THE RESPONSIBILITY OF THE OWNER AND HIS ENGINEER. THE OWNER'S ENGINEER SHALL SUBMIT THREE SEALED COPIES OF THIS GRADING AND DRAINAGE PLAN DESIGNATED AS "RECORD DRAWING" (BEARING AN ORIGINAL SIGNATURE) PRIOR TO THE REQUEST FOR FINAL INSPECTION
- PAD CERTIFICATIONS WILL BE REQUIRED ON ALL LOTS WITHIN THE SUBDIVISION AND SUBMITTED TO THE CIVIL/SITE INSPECTOR PRIOR TO ANY CONCRETE CONSTRUCTED IN THE RIGHT-OF-WAY. PAD CERTIFICATION CAN BE SUBMITTED TO THE CIVIL/SITE INSPECTOR BY EITHER SUBMITTING ONE APPROVED BLACK-LINE AS-BUILT GRADING AND DRAINAGE PLAN OR IN LETTER FORMAT SHOWING THE DESIGN AND AS-BUILT PAD ELEVATIONS AS SHOWN ON THE APPROVED GRADING AND DRAINAGE PLAN. IT IS REQUIRED THAT THE AS-BUILT PLAN AND LETTER BE SEALED BY A CIVIL ENGINEER OR LAND SURVEYOR REGISTERED IN THE STATE OF ARIZONA. A SEPARATE PERMIT IS NECESSARY FOR ANY OFFSITE CONSTRUCTION.
- 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.
- GRADING AND DRAINAGE PLAN APPROVAL INCLUDES THE CONSTRUCTION OF ALL SURFACE IMPROVEMENTS SHOWN ON THE APPROVED PLAN, INCLUDING, BUT NOT LIMITED TO, RETENTION AREAS, SEDIMENTATION BASINS, AND/OR OTHER DRAINAGE FACILITIES, DRAINAGE PATTERNS, WALLS, CURBS, ASPHALT PAVEMENT, AND BUILDING FLOOR ELEVATION
- 11. GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUBCONTRACTOR PLAN TO PLACE SPOIL DIRT FROM FOOTINGS, UTILITY TRENCHES, LANDSCAPING, SWIMMING POOLS, ETC. IN THE BASINS, THE BASINS SHOULD BE SUFFICIENTLY OVER-EXCAVATED DURING THE ROUGH GRADING OPERATION TO ALLOW FOR THE PLACEMENT OF THE FILL OR LANDSCAPING MATERIALS
- 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 PER PLAN BECAUSE OF CONFLICTS, THE CONTRACTOR SHOULD DISCUSS MODIFICATION OF BASIN CONFIGURATION WITH THE CITY INSPECTOR TO DETERMINE IF A PLAN REVISION OR A FIELD CHANGE IS REQUIRED.
- 13. ALL DRAINAGE PROTECTIVE DEVICES SUCH AS SWALES, INTERCEPTOR DITCHES, PIPES, PROTECTIVE BERMS, BARRIER WALLS, CONCRETE CHANNELS, OR OTHER MEASURES DESIGNED TO PROTECT ADJACENT BUILDINGS OR PROPERTY FROM STORM RUNOFF MUST BE COMPLETED PRIOR TO BUILDING CONSTRUCTION.
- 14. PER SECTION 6.8.7 OF THE CITY OF PHOENIX STORM WATER POLICIES AND STANDARDS. SIDE SLOPES OF STORM WATER STORAGE FACILITIES SHALL BE NO STEEPER THAN 5:1 FOR IRRIGATED GRASS AREAS AND 3:1 FOR LANDSCAPE AREAS. SLOPE STABILIZATION MEASURES ARE REQUIRED FOR ALL SLOPES GREATER THAN 5:1. THE SLOPE STABILIZATION MEASURES MUST BE READILY MAINTAINABLE USING COMMON MAINTENANCE EQUIPMENT AND BE DESIGNED WITH CONSIDERATION TO AESTHETICS. THE SLOPE STABILIZATION MEASURES SHALL BE CONSISTENT WITH COMMONLY USED ENGINEERING PRACTICES. UN-STABILIZED DECOMPOSED GRANITE IS NOT ALLOWED ON
- 15. ALL RETAINING WALL ARE TO BE REVIEWED, PERMITTED, AND INSPECTED BY THE BUILDING SAFETY BRANCH OF THE PLANNING & DEVELOPMENT DEPARTMENT. ALL RETAINING WALLS ARE TO BE IN ACCORDANCE WITH SECTION 703 OF THE ZONING ORDINANCE AND SECTION 32-32 OF THE SUBDIVISION ORDINANCE FOR SPECIFIC WALL HEIGHT REQUIREMENTS. USE PERMIT IS REQUIRED FOR ALL OVER-HEIGHT RETAINING WALLS.
- 16. ALL RAMPS MUST MEET 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. UNIFORM STANDARD SPECIFICATIONS AND DETAILS: 2% MAX CROSS SLOPES AND 12:1 MAX LONGITUDINAL SLOPES.
- 17. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED.
- 18. EXISTING OR NEWLY DAMAGED AND/OR DISPLACED CONCRETE CURB, GUTTER, SIDEWALK, OR DRIVEWAY SLAB THAT IS WITHIN THE RIGHT-OF-WAY SHALL BE REPAIRED OR REPLACED, AS NOTED BY CITY INSPECTORS, BEFORE FINAL ACCEPTANCE OF THE WORK. 19. THE ENGINEERING DESIGN ON THESE PLANS IS ONLY APPROVED BY THE CITY IN SCOPE AND NOT IN DETAIL. CONSTRUCTION QUANTITIES ON THESE PLANS ARE NOT VERIFIED BY THE CITY. APPROVAL OF THESE PLANS ARE FOR PERMIT PURPOSES ONLY AND SHALL NOT PREVENT THE CITY 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.
- 20. THE CITY OF PHOENIX POLICE DEPARTMENT ENFORCES LAWS REGULATING THE OPERATION OF COMMERCIAL VEHICLES. THIS INCLUDES ENFORCEMENT OF FEDERAL, STATE, COUNTY AND LOCAL LAWS AND ORDINANCES. QUESTIONS REGARDING COMMERCIAL VEHICLE ENFORCEMENT MAY BE DIRECTED TO THE COMMERCIAL VEHICLE ENFORCEMENT SUPERVISOR AT (602) 495-7813 (TRAFFIC BUREAU SOUTH) OR (602) 495-6784 (TRAFFIC BUREAU NORTH)
- 21. PLAN APPROVAL IS VALID FOR 180 DAYS. PRIÓR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE $V_{FF}=V=(P/12)*C*A$ PLANS SHALL BE RESUBMITTED FOR EXTENSION OF PLAN APPROVAL. THE EXPIRATION, EXTENSION, AND REINSTATEMENT OF CIVIL ENGINEERING PLANS AND PERMITS SHALL FOLLOW THE SAME GUIDELINES AS THOSE INDICATED IN THE PHOENIX BUILDING CONSTRUCTION CODE ADMINISTRATIVE PROVISIONS SECTION 105.3 FOR BUILDING PERMITS.
- 22. CONSTRUCTION WITHIN THE RIGHT—OF—WAY SHALL CONFORM TO THE LATEST APPLICABLE MARICOPA ASSOCIATION OF GOVERNMENTS (MAG) UNIFORM STANDARD SPECIFICATIONS AND DETAILS AND THE LATEST CITY OF PHOENIX SUPPLEMENT TO THE MAG UNIFORM STANDARD SPECIFICATIONS AND DETAILS
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
- OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
- THE ACTUAL POINT OF PAVEMENT MATCHING AND/OR TERMINATION SHALL BE DETERMINED IN THE FIELD BY THE CITY OF PHOENIX,
- PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTOR. 26. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. SECTION 336 AND C.O.P. DETAIL P1200 -TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT
- SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230. 27. TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT OR HIS ASSIGNEES. THE PERMITTEE SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION
- TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS AND RECREATION DEPARTMENT AT (602) 262-6501. 28. A PAVEMENT CUT SURCHARGE SHALL BE ASSESSED ON THIS PROJECT FOR ANY TRENCHING OR POTHOLING IN NEW ASPHALT PAVEMENT THAT IS LESS THAN 30 MONTHS OLD. SURCHARGE FEES ASSESSED ARE IN ADDITION TO THE REGULAR PERMIT FEES AND ARE OVER AND ABOVE ANY SPECIAL BACKFILL, COMPACTION, AND PAVEMENT REPLACEMENT STIPULATIONS THAT MAY BE IMPOSED AS A CONDITION OF PERMITTING, PAVEMENT CUT SURCHARGE FEES ARE ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE

										 	TIL THOLIN	······································
				RL	EVISIONS							
Dl	DELTA DESCRIPTION								DATE			
	ID .								•			
	1 GENERAL REVISIONS TO CIVIL IMPROVEMENTS			8/30/18								
	2	PARENT L	DROP OFF	REMOVAL,	RELOCATE	NORTH	PARKING	SPACES	& GENERAL	CIVIL	IMPROVEMENTS	10/30/18
						·_						

GRADING AND DRAINAGE WITH OFFSITE IMPROVEMENTS

NEVITT ELEMENTARY SCHOOL

PHOENIX. AZ. 85042



DRAINAGE STATEMENT

SITE IS IN A SPECIAL FLOOD HAZARD AREA (Y) (N)
OFFSITE FLOWS AFFECT THIS SITE (Y) (N)
RETENTION VOLUME IS PROVIDED FOR THE 2.2" STORM EVENT. EXTREME STORM OUTFALLS THE SITE AT THE NORTHEAST CORNER AT THE ELEVATION OF 1165.4

DRAINAGE CALCULATIONS

PRE-DEVELOPMENT RETENTION VOLUME REQUIRED (VR)

- = RETENTION VOLUME REQUIRED , C.F. = RAINFALL DEPTH 2.2 IN. (NOAA 14)
- = TOTAL AREA, 596,685 S.F.
- = RETENTION COEFFICIENT, 0.5 (COMPOSITE C) $V_R = (2.2 \text{ IN.} / 12) * 0.51 * 596,685 \text{ S.F.}$
- = 55,686 C.F.

FIRST FLUSH VFF

- = 0.5 IN (FIRST FLUSH)
- A = TOTAL AREA, 111.078 S.F.
- = 1.0 (FIRST FLUSH)
- $V_{FF} = (0.5 \text{ IN.} / 12) * 1.0 * 596,685 \text{ S.F.}$ $V_{FF} = 24.861 \text{ C.F.}$
- POST-DEVELOPMENT RETENTION VOLUME REQUIRED (VR) V_{P} = RETENTION VOLUME REQUIRED . C.F.
- = RAINFALL DEPTH 2.2 IN. (NOAA 14)
- = TOTAL AREA, 596,685 S.F. = RETENTION COEFFICIENT, 0.5 (COMPOSITE C)
- = (2.2 IN. / 12) * 0.5 * 596.685 S.F. $V_{P} = 54,696 \text{ C.F.} > V_{FF}$; $V_{P} GOVERNS!$

PRE-DEVELOPMENT RETENTION VOLUME PROVIDED (VP) = RETENTION VOLUME PROVIDED, C.F. $V_{\rm p} = 101.342 \, \rm C.F.$ POST-DEVELOPMENT RETENTION VOLUME PROVIDED (VP)

N PARENT DROPP OFF REMOVAL. RELOCATE

∠2\ NORTH PARKING SPACE & GENERAL

40063

DAVID G.

LAREDO

REVISIONS TO CIVIL IMPROVEMENTS

= RETENTION VOLUME PROVIDED. C.F. = 200,095 C.F.

200,095 C.F. -56.559 C.F. 143.536 C.F.

INDIVIDUAL BASIN ANALYSIS As Built Total Area C-Coefficient Volume Required Volume Provided **Comments** Volume Provided [acres] [acre-ft] |acre-ft| [acre-ft] 0.67 0.05 0.09 0.44 3,090 3,850 0.03 0.20 0.72 Ok^{j} 1,124 Interconnected Basins 0.67 0.08 0.65 3,480 4.300 3 & 4 w/Eq. Pipes 0.04 0.70 0.02 0.34 1.868 1,230 Ok!5,530 0.14 5,348 0.12 3-4 0.01 0.032 0.15 0.36 800 421 11.21 1.01 0.49 0.47 2.465 2,497 0.55 0.04 0.06) Ok! Total/Avg 13.71 0.53 190,166 4.37

TOTAL FILL =18.707 CY ______ 842 CY IMPORT

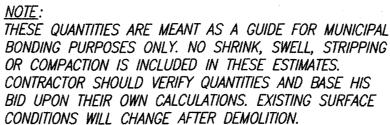
TOTAL CUT =19.554 CY

OBTAIN AND VERIFY HIS OWN QUANTITIES.

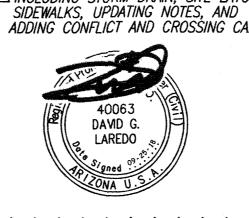
GENERAL DATA:

UNADJUSTED VOLUMES

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO



A GENERAL REVISIONS TO CIVIL IMPROVEMENTS 1\(\text{INCLUDING STORM DRAIN, SITE LAYOUT,}\) SIDEWALKS. UPDATING NOTES, AND ADDING CONFLICT AND CROSSING CALLOUTS



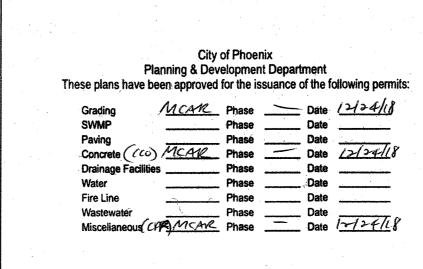
Call before you di

1.800.STAKE.IT

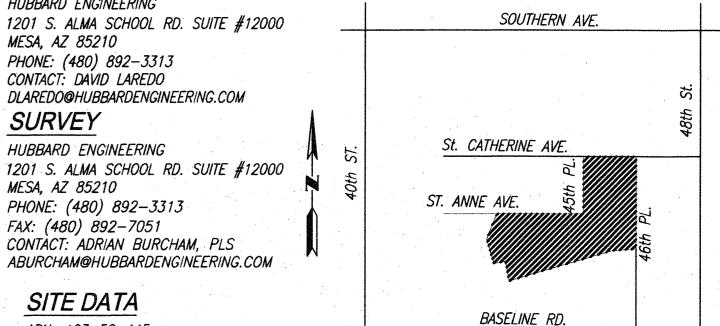
602.263.1100

QS# 02-38

CITY OF PHOENIX APPROVAL BLOCK



RVSN# 1800657-02 KIVA# 17-3110 CCPR# 1800048 SDEV# 1700631 PAPP# 1705053



VICINITY MAP:

SCALE: NTS LEGEND EXISTING SANITARY MANHOLE EXISTING POWER POLE

> PROPOSED FIRE HYDRANT PROPOSED WATER VALVE EXISTING WATER METER EXISTING BACKFLOW PREVENTOR

> > EXISTING GRADE

EXISTING NATURAL GAS LINE

PROPOSED SEWER LINE

PROPOSED WATER LINE

PROPOSED FIRE LINE

EXISTING CENTER LINE

RIGHT-OF-WAY

PROPERTY LINE

EXISTING OVERHEAD ELECTRIC LINE

EXISTING VALVE NUMBER

EXISTING MANHOLE NUMBER P=123 PROPOSED GRADE

EXISTING WATER LINE TRACT A OF PONDEROSA VILLAGE UNIT 2. A SUBDIVISION OF PARTS OF EXISTING SEWER LINE SECTION 31, TOWNSHIP 1 NORTH, RANGE 4 EAST OF THE GILA RIVER BASE

OFFSITE QUANTITIES ASPHALTIC CONCRETE

COUNTY RECORDS, MARICOPA COUNTY, ARIZONA

OWNER / DEVELOPER

205 S. RURAL RD.

TEMPE. AZ 85281

ARCHITEC1

GILBERT, AZ. 85345

PHONE: (480) 539-8800

PETEB@HD-ARCHITECTS.COM

CONTACT: PETE BARKER

SHEET INDEX

4525 E. ST. ANNE AVE.

PHOENIX, AZ. 85042

SCHOOL CAMPUS.

BENCHMARK

BASIS OF BEARING

LEGAL DESCRIPTION

BEARING= N89'31'47"E

C102

C103

C104-C110

PHONE: (480) 277-6746

CONTACT: COURTNEY QUESADA

CQUESADA@TEMPESCHOOLS.ORG

459 N. GILBERT RD. SUITE C-200

PROPERTY ADDRESS

PROJECT DESCRIPTION

COVER SHEET

QUANTITIES AND DETAILS

GRADING PLAN SHEETS

CAP IN HANDHOLE ELEVATION = 1145.868 (NGVD 1929 DATUM)

THE DEMOLITION OF 3 EXISTING SCHOOL BUILDINGS AND ACCESSORIES BUILDINGS AND

CONSTRUCTION OF 3 NEW SCHOOL BUILDINGS, ASSOCIATED ACCESSORIES BUILDINGS,

PLAY FIELDS, DRAINAGE AND LANDSCAPE IMPROVEMENTS ON AN EXISTING ELEMENTARY

NORTHEAST CORNER OF SECTION 31, TOWNSHIP 1 NORTH, RANGE 4 EAST. *BRASS

THE MONUMENT LINE OF SAINT CATHERINE AS MEASURED BETWEEN THE FOUND

BOUNDARY OF THE PONDEROSA VILLAGE UNIT 2 SUBDIVISION AS RECORDED AT

BRASS CAP FLUSH AT 44TH STREET & SAINT CATHERINE AVENUE & THE

FOUND BRASS CAP FLUSH ON SAINT CATHERINE AVENUE MARKING THE EAST

AND MERIDIAN AND RECORDED IN BOOK 153 OF MAPS, PAGE 46, MARICOPA

DEMO PLAN SHEET

TEMPE ELEMENTARY SCHOOL DISTRICT #3

CIVIL ENGINEER

PHONE: (480) 892-3313

CONTACT: DAVID LAREDO

HUBBARD ENGINEERING

PHONE: (480) 892-3313

FAX: (480) 892-7051

SITE DATA

APN: 123-58-445

AREA GROSS=16.2748 AC

AREA NET=14.6438 AC

DLAREDO@HUBBARDENGINEERING.COM

CONTACT: ADRIAN BURCHAM, PLS

ABURCHAM@HUBBARDENGINEERING.COM

TOTAL DISTURBED AREA= ±12.921 AC

HUBBARD ENGINEERING

MESA, AZ 85210

SURVEY

MESA, AZ 85210

PAVEMENT REPAIR (MICROSURFACING) INSTALL CURB AND GUTTER PER M.A.G. 220-1____ 450 LF . SIDEWALK PER COP STD. DTL. P-1230_____1,300 SF DRIVEWAYS PER COP STD. DTL P-1255-2_____4 EA.

ALL QUANTITIES ARE ESTIMATES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CALCULATING THEIR OWN QUANTITIES FOR BIDDING.

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 NUMBER

◆----GB---- GRADE BREAK

City of Phoenix Planning & Development Departmen ave been approved for the issuance of the following permits: _____ Phase _____ Date _____

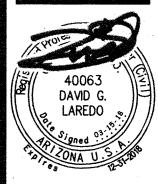
Phase ____ Date Wiscellaneous (GPL) MCHR Phase

City of Phoenix **Planning & Development Department** Paving Concrete Date Drainage Facilities Date

Fire Line

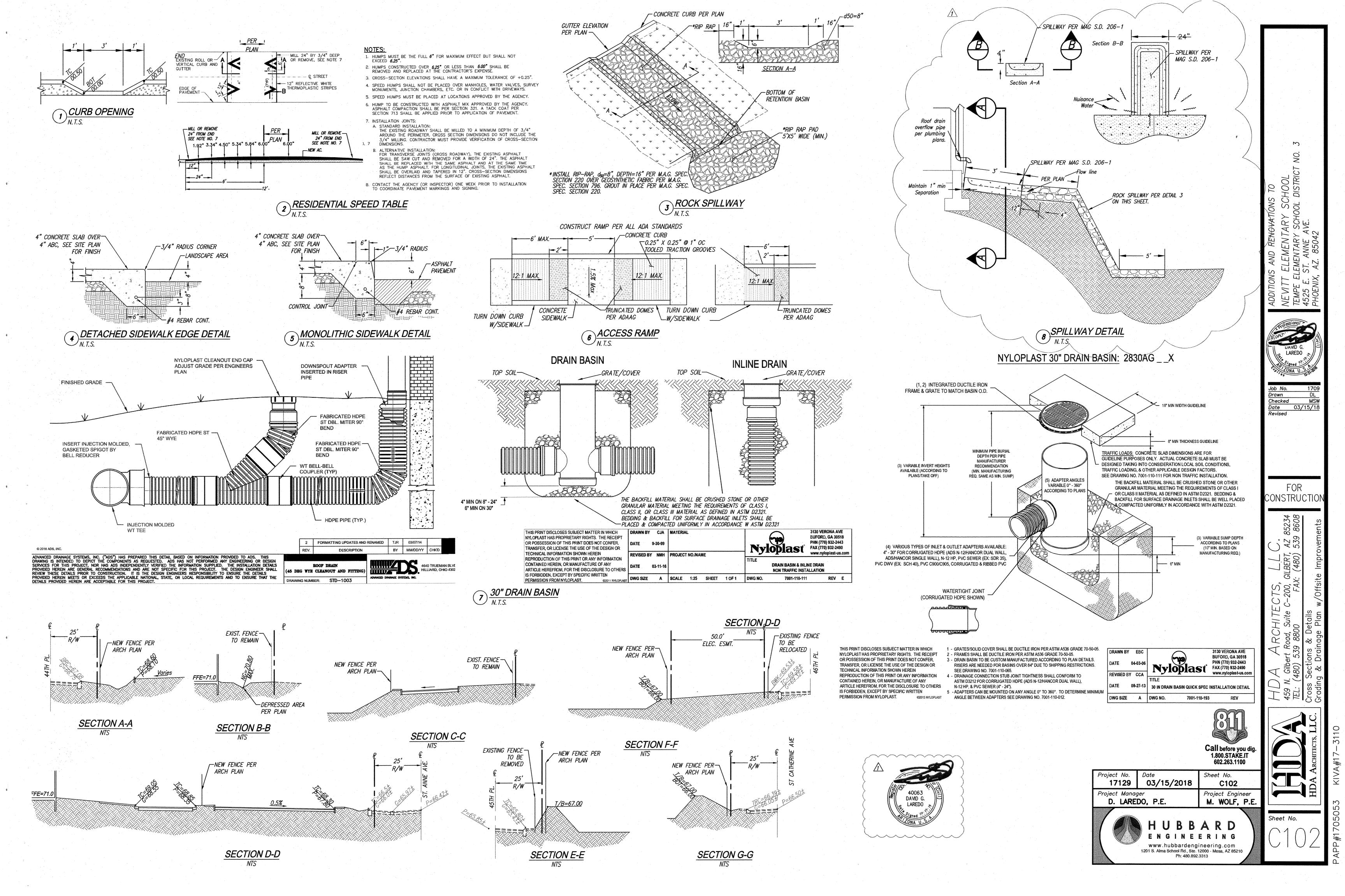
Project No. Sheet No. 03/15/2018 17129 C101 Project Manager Project Engineer D. LAREDO, P.E. M. WOLF, P.E





Checked

CONSTRUCTIO



THIS SHEET FOR REFERENCE

QUANTITIES

DEMO BUIDLING/STRUCTURE = $\pm 74,360$ SF



DEMO CONCRETE = \pm 5,332 SY

DEMO ASPHALT = \pm 4,252 SY

LEGEND

GAS	EXISTING GAS
S	EXISTING SEWER LINE
	EXISTING WATER LINE
UGE	EXISTING UNDERGROUND ELEC.
UGC	EXISTING UNDERGROUND COMM
OHE	EXISTING OVERHEAD ELEC.
	EXISTING STORM DRAIN
\otimes	EXISTING BACKFLOW PREVEN
\otimes	EXISTING WATER VALVE
	EXISTING FIRE HYDRANT
(SS)	EXISTING SEWER MANHOLE
——————————————————————————————————————	EXISTING MAJOR CONTOUR

EXISTING POWER POLE

EXISTING MINOR CONTOUR

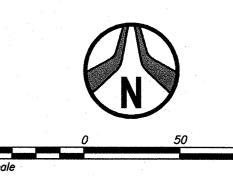
EXISTING SEWER CLEANOUT

EXISTING WATER METER

CONTRACTOR NOTE:

- ANY UTILITY LOCATED WITHIN THE PROJECT NOT FOUND ON THIS PLAN SHEET, PLEASE NOTIFY THE ENGINEER.
- 2. ALL QUANTITIES SHOWN ARE PRELIMINARY ESTIMATES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR OWN ESTIMATES.
- 3. CONTRACTOR TO SALVAGE USABLE PLAY EQUIPMENT FOR NEW ONSITE DESIGNATED AREAS OR OTHER OFF SITE SCHOOL DISTRICT SITES.
- 4. CONTRACTOR TO SALVAGE EXISTING USABLE STRUCTURES, EQUIPMENT & AESTHETIC ITEMS; SUCH AS BUT NOT LIMITED CANOPY STRUCTURES, BENCHES, BOULDERS ELECTRICAL FEEDER LINES AND ANY MAIN COMPONENTS. WHEN POSSIBLE RELOCATE STRUCTURES AND/OR EQUIPMENT ONSITE.





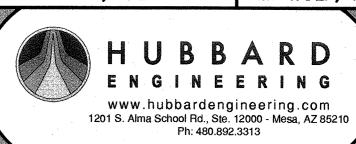


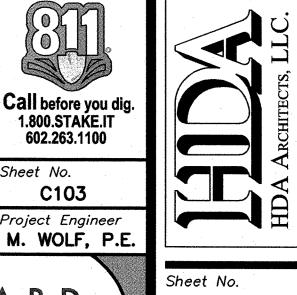
Sheet No.

C103

Project Engineer

17129 03/15/2018 Project Manager D. LAREDO, P.E.





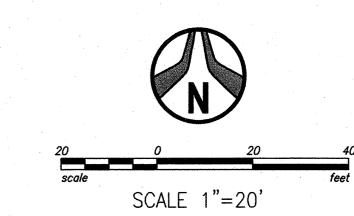
SC/ NE.

LAREDO

Date 03/15/18 Revised

CONSTRUCTIO

TO ONA U.S



RB-05

PAVEMENT

207.4

THIS SHEET

HW=1166.0

BOI=1165~

V_{PROV}=551 cu.ft.

 V_{REQ} =421 cu.ft.

- SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200—TYPE SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL PT200—THE
 B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1)
 FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK
 REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER
 CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF
 PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR,
 TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX
 ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL
 NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
- APPLY TYPE III SLURRY SEAL TO FULL WIDTH OF LOCAL STREET. TREATMENT MUST EXTEND A MINIMUM OF 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS.
- CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12"
- 7 CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. S.D. P-1255-1.
- 9 INSTALL SINGLE CURB PER MAG S.D. 222 TYPE B.
- (CONSTRUCT MONOLITHIC CONCRETE SIDEWALK PER DETAILS 4&5 ON SHEET C102.)
- (12) CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 203
- PROVIDE 3' CURB OPENING PER DTL. 1 ON SHEET C102.
- 15 INSTALL VERTICAL CONCRETE CURB & GUTTER PER MAG S.D. 220-1 TYPE 'A'.
- (16) CONSTRUCT SIDEWALK RAMP PER DETAIL 6 ON SHEET C102.
- CONSTRUCT CONCRETE 2' VALLEY GUTTER PER COP S.D. P1021
- (18) CONSTRUCT SPEED TABLE WITH CROSSWALK PER DETAIL 2 ON SHEET C102.
- 19 NEW 30" ADS NON-TRAFFIC DRAIN BASIN W/24" STANDARD GRATE
 SEE DETAIL ON SHEET C102. INVERT PER PLAN
- (20) INSTALL ROCK SPILLWAY PER DETAIL 3 ON SHEET C102.
- 21) (INSTALL HDPE STORM DRAIN PIPE SIZE AND SLOPE PER PLAN ROOF & OVER FLOWS 1) LEADERS TO CONNECT TO THE NEAREST STORMDRAIN PIPE.

 22) INSTALL INLET/OUTLET, HEADWALL & TRASH RACK PER MAG S.D. 501.4 & 502.2 INSTALL ROCK PAD 5' MIN. WIDTH AND LENGTH PER DET. 3 ON SHEET C102.
- 23 REMOVE AND RELOCATE FENCE WITHIN 2' OF PROPERTY LINE.
- 24 CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% (MAX) IN ALL DIRECTIONS.
- $\langle 25 \rangle$ PROVIDE TRASH ENCLOSURE PER ARCHITECT'S PLANS.
- $\langle 26 \rangle$ SITE WALL/FENCE PER ARCHITECT'S PLANS.
- $\langle 27 \rangle$ Install speed bump per architect's plan.
- $\langle 30 \rangle$ INSTALL ACCESSIBLE RAMP PER DETAIL 6 ON SHEET C102.
- $\langle \overline{32} \rangle$ PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- 33 INSTALL CURB AND SIDEWALK PER PLAN. TURN DOWN SIDEWALK & CURB PER COP S.D. P1243. SIDEWALK & CROSSWALK WIDTH AND SLOPE PER COP S.D. P1243. (34) INSTALL CONCRETE SCUPPER PER DETAIL 8 ON SHEET C102 AT EACH DÓWNSPOUT LOCATION (REFER TO ARCHITECTS PLANS FOR LOCATION)
- CONNECT ROOF & OVERFLOW LEADERS TO STORMDRAIN

 STORMDRAIN

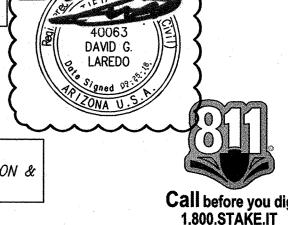
 STORMDRAIN

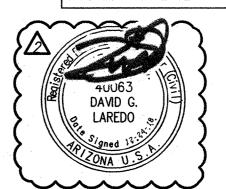
 OUT TO STORM THE STORM TH

SEE ARCHITECTS PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.

CAUTION: EXISTING UNDERGROUND FACILITIES WITHIN PROJECT VICINITY, OUTSIDE OF IMMEDIATE PROJECT LIMITS. CONTRACTOR TO CONFIRM LOCATION AND PROTECT IN PLACE

CAUTION: PROPOSED DEMOLITION ABOVE EXISTING COX UTILITIES. PROCEED WITH CAUTION & PROTECT IN PLACE





^Droject No. 03/15/2018 17129 Project Manager D. LAREDO, P.E.

C104 Project Engineer M. WOLF, P.E. UBBARD

Sheet No.

602.263.1100

Sheet No. www.hubbardengineering.com 1201 S. Alma School Rd., Ste. 12000 - Mesa, AZ 85210 Ph: 480.892.3313

ELEV=1165.42 REMOVE UTILITIES PER SHEET C103 *CO=65.75* RB-03 HW=1166.0 BOT=1165.0 C=68.90 CHUS...
P=68.40 CHUS...
BOT 4" WL=63.90 $V_{PROV}=4,300$ cu.ft. $V_{REQ}=3,480$ cu.ft. TC=67.85 P=67.35 TOP 6" SL=61.00-BOT 3" WL=64.00 TOP 6" SL=62.20 P=68.60 ÎNSTALL NEW POLE SEE ARCHITECTH'S PLANS 4SW=70.50 SW=70.85 RFI #092 -SW=70.95 **GRADES FOR** GRADES FO CONCRETE ENTRANCE **BUILDING#12** <u>INV=67.24</u>(19) FFE=1171.0 SW=70.95 21)114 LI BOT 4" WL=65.50 TOP 6" SL=62.20 29>-

HW=1166.00

BOT=1165.00

& RB-04.

MATCH SHEET C105

STATION EQUATION=

STA 15+80 44TH ST

EXTREME OUTFALL

STA 0+00 ST. ANNE AVE

 $V_{PROV}=1,230$ cu.ft.

V_{REQ}=1,868 cu.ft. INTERCONNECTED TO RB-03

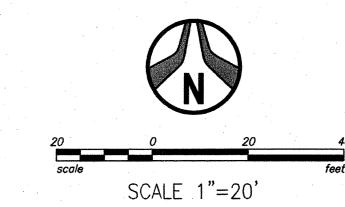
ST. ANNE AVE.

06-1972-0233

DAVID G. LAREDO TONA U.S Checked

CHOOL DISTRICT

CONSTRUCTIO



GRADING NOTES:

- 7 PROTECT EXISTING STRUCTURE
- $\langle 2 \rangle$ EXISTING CONCRETE PEDESTALS
- 3 REMOVE EXISTING CURB AND GUTTER.
- SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200—TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF

PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.

- APPLY TYPE III SLURRY SEAL TO FULL WIDTH OF LOCAL STREET. TREATMENT MUST EXTEND A MINIMUM OF 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS. CONSTRUCT HEAVY—DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- 7 CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. S.D. P-1255-1.
- 9 INSTALL SINGLE CURB PER MAG S.D. 222 TYPE B.
- INSTALL ROLL CURB PER MAG S.D. 220-1 TYPE 'C'.
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- (CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 203
- CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 206
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- CONSTRUCT SIDEWALK RAMP PER DETAIL 6 ON SHEET C102.
- CONSTRUCT CONCRETE 2' VALLEY GUTTER PER COP S.D. P1021
- (18) CONSTRUCT SPEED TABLE WITH CROSSWALK PER DETAIL 2 ON SHEET C102.
- 19 NEW 30" ADS NON-TRAFFIC DRAIN BASIN W/24" STANDARD GRATE
 SEE DETAIL ON SHEET C102. INVERT PER PLAN

 20 INSTALL ROCK SPILLWAY PER DETAIL 3 ON SHEET C102.
- 21) (INSTALL HDPE STORM DRAIN PIPE SIZE AND SLOPE PER PLAN ROOF & OVER FLOWS 1) LEADERS TO CONNECT TO THE NEAREST STORMDRAIN PIPE.
- 22 INSTALL INLET/OUTLET HEADWALL & TRASH RACK PER MAG S.D. 501.4 & 502.2 INSTALL ROCK PAD 5' MIN. WIDTH AND LENGTH PER DET. 3 ON SHEET C102.
- (23) REMOVE AND RELOCATE FENCE WITHIN 2' OF PROPERTY LINE.
- $\langle 24 \rangle$ CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% (MAX) IN ALL DIRECTIONS.
- 25 PROVIDE TRASH ENCLOSURE PER ARCHITECT'S PLANS.
- $\langle 26 \rangle$ SITE WALL/FENCE PER ARCHITECT'S PLANS.
- $\langle 27 \rangle$ INSTALL SPEED BUMP PER ARCHITECT'S PLAN.
- EXISTING FLOOD IRRIGATION STRUCTURE. REFER TO THE LANDSCAPING PLANS FOR
- CONSTRUCT WALL PER ARCHITECT'S PLAN.
- (30) INSTALL ACCESSIBLE RAMP PER DETAIL 6 ON SHEET C102.
- 31 DEPRESS AREA 6" MIN. U.N.O.
- 32 PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- 33 INSTALL CURB AND SIDEWALK PER PLAN. TURN DOWN SIDEWALK & CURB PER COP S.D. P1243. SIDEWALK & CROSSWALK WIDTH AND SLOPE PER COP S.D. P1243. INSTALL CONCRETE SCUPPER PER DETAIL 8 ON SHEET C102 AT EACH DOWNSPOUT LOCATION (REFER TO ARCHITECTS PLANS FOR LOCATION)
- CONNECT ROOF & OVERFLOW LEADERS TO STORMDRAIN

 SHEET C102

SEE ARCHITECTS PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.

CAUTION: PROPOSED DEMOLITION ABOVE EXISTING COX UTILITIES. PROCEED WITH CAUTION & PROTECT IN PLACE

CAUTION: EXISTING UNDERGROUND FACILITIES WITHIN PROJECT VICINITY, OUTSIDE OF IMMEDIATE PROJECT LIMITS. CONTRACTOR TO CONFIRM LOCATION AND PROTECT IN PLACE

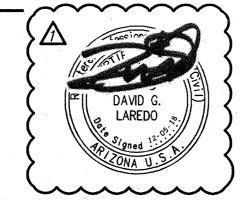


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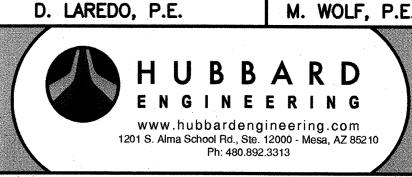
C105

Project Engineer





Project No. 03/15/2018 17129 Project Manager D. LAREDO, P.E.



HOOL

AR SCI

DAVID G.

LAREDO

CONSTRUCTION

15

03

Checked

Revised



MATCH SHEET C107

BOT 12" \$0-66.20 TOP 6" FL=65.00

RIM=69.70

SW=69.50

BOT 6" FL=67.50

TOP 12" SD=66.50

-Provide 18' Curb Opening per MAG

\PAD=71.50

 $\frac{\textit{W=Varies}}{11} 7 \quad \textit{SW=69.75}$

21 12" 125 LF 0 0.4%

TB=70.92

INSTALL NEW PHOENIX PAVERS

ERRITORIAL CIRCLE KIT (TYPE L)

BUILDING#1

FFE=1171.0

BUILDING#1

SW=70.40

SW=70.35

7 PROTECT EXISTING STRUCTURE

 $\langle 2 \rangle$ EXISTING CONCRETE PEDESTALS

REMOVE EXISTING CURB AND GUTTER.

<u>ICV=68.79</u>/

BY OTHERS

SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT
THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX
SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200—TYPE
B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1)
FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK
BEST ACCURATE SUM A BE A MINIMUM OF ONE (1) FULL PANCE BED REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.

APPLY TYPE III SLURRY SEAL TO FULL WIDTH OF LOCAL STREET. TREATMENT MUST EXTEND A MINIMUM OF 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS.

CONSTRUCT HEAVY—DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.

7 CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.

8 INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. S.D. P-1255-1.

9 INSTALL SINGLE CURB PER MAG S.D. 222 TYPE B.

 $\langle 10 \rangle$ INSTALL ROLL CURB PER MAG S.D. 220-1 TYPE 'C'.

CONSTRUCT MONOLITHIC CONCRETE SIDEWALK PER DETAILS 4&5 ON SHEET C102.

 $\langle 12 \rangle$ CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 203

CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 206

[14] PROVIDE 3' CURB OPENING PER DTL. 1 ON SHEET C102.

(15) INSTALL VERTICAL CONCRETE CURB & GUTTER PER MAG S.D. 220-1 TYPE 'A'.

CONSTRUCT SIDEWALK RAMP PER DETAIL 6 ON SHEET C102.

CONSTRUCT SPEED TABLE WITH CROSSWALK PER DETAIL 2 ON SHEET C102.

19 NEW 30" ADS NON-TRAFFIC DRAIN BASIN W/24" STANDARD GRATE

20) INSTALL ROCK SPILLWAY PER DETAIL 3 ON SHEET C102.

(INSTALL HDPE STORM DRAIN PIPE SIZE AND SLOPE PER PLAN ROOF & OVER FLOWS 11 LEADERS TO CONNECT TO THE NEAREST STORMDRAIN PIPE.

(22) INSTALL INLET/OUTLET, HEADWALL & TRASH RACK PER MAG S.D. 501.4 & 502.2

(22) INSTALL ROCK PAD 5' MIN. WIDTH AND LENGTH PER DET. 3 ON SHEET C102. (23) REMOVE AND RELOCATE FENCE WITHIN 2' OF PROPERTY LINE.

 $\langle 24 \rangle$ CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% (MAX) IN ALL DIRECTIONS.

 $\langle 25 \rangle$ PROVIDE TRASH ENCLOSURE PER ARCHITECT'S PLANS.

 $\langle 26 \rangle$ SITE WALL/FENCE PER ARCHITECT'S PLANS.

 $\langle 27 \rangle$ INSTALL SPEED BUMP PER ARCHITECT'S PLAN.

28 EXISTING FLOOD IRRIGATION STRUCTURE. REFER TO THE LANDSCAPING PLANS FOR DETAILS.

29 CONSTRUCT WALL PER ARCHITECT'S PLAN.

30 INSTALL ACCESSIBLE RAMP PER DETAIL 6 ON SHEET C102.

31) DEPRESS AREA 6" MIN. U.N.O.

 $\left\langle \overline{32} \right\rangle$ PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.

17129

INSTALL CURB AND SIDEWALK PER PLAN. TURN DOWN SIDEWALK & CURB PER COP S.D. P1243. (34) INSTALL CONCRETE SCÙPPÈR PER DETAIL 8 ON SHEET C102 AT ÈACH DÒWNSPOÙT (LOCATION (REFER TO ARCHITECTS PLANS FOR LOCATION)

35) CONNECT ROOF & OVERFLOW LEADERS TO STORMDRAIN SHEET C102

SEE ARCHITECTS PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.

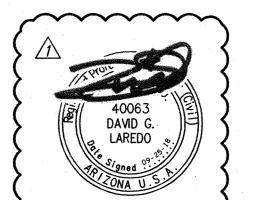
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CAUTION: PROPOSED DEMOLITION ABOVE EXISTING COX UTILITIES. PROCEED WITH CAUTION & PROTECT IN PLACE



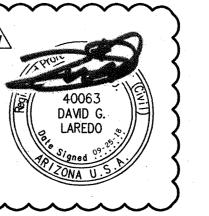
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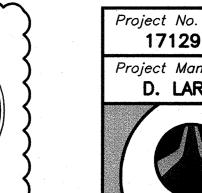
C106

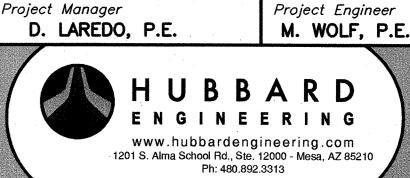


DAVID G.

LAREDO







03/15/2018

JR SCI

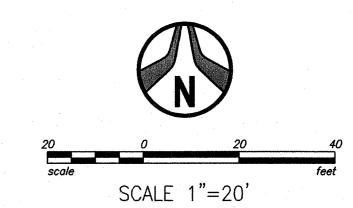
LAREDO TO TONA U

Checked MSW Date 03/15/18 Revised

CONSTRUCTIO



MATCH SHEET C106



GRADING NOTES:

- 7 PROTECT EXISTING STRUCTURE
- $\langle 2 \rangle$ EXISTING CONCRETE PEDESTALS
- 3 REMOVE EXISTING CURB AND GUTTER.
- SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT
 THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX
 SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200—TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR,
 TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX
 ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL
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- APPLY TYPE III SLURRY SEAL TO FULL WIDTH OF LOCAL STREET. TREATMENT MUST EXTEND A MINIMUM OF 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS.
- 6 CONSTRUCT HEAVY—DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- 7 CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- 8 INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. S.D. P-1255-1.
- 9 INSTALL SINGLE CURB PER MAG S.D. 222 TYPE B.
- $\langle 10 \rangle$ INSTALL ROLL CURB PER MAG S.D. 220-1 TYPE 'C'.
- CONSTRUCT MONOLITHIC CONCRETE SIDEWALK PER DETAILS 4&5 ON SHEET C102.
- (12) CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 203
- CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 206
- PROVIDE 3' CURB OPENING PER DTL. 1 ON SHEET C102.
- (15) INSTALL VERTICAL CONCRETE CURB & GUTTER PER MAG S.D. 220-1 TYPE 'A'.
- 76 CONSTRUCT SIDEWALK RAMP PER DETAIL 6 ON SHEET C102.
- CONSTRUCT CONCRETE 2' VALLEY GUTTER PER COP S.D. P1021 (18) CONSTRUCT SPEED TABLE WITH CROSSWALK PER DETAIL 2 ON SHEET C102.
- 19 NEW 30" ADS NON-TRAFFIC DRAIN BASIN W/24" STANDARD GRATE
 SEE DETAIL ON SHEET C102. INVERT PER PLAN 20 INSTALL ROCK SPILLWAY PER DETAIL 3 ON SHEET C102.
- (INSTALL HOPE STORM DRAIN PIPE SIZE AND SLOPE PER PLAN ROOF & OVER FLOWS 1)
 LEADERS TO CONNECT TO THE NEAREST STORMDRAIN PIPE.
- 22) INSTALL INLET/OUTLET, HEADWALL & TRASH RACK PER MAG S.D. 501.4 & 502.2 INSTALL ROCK PAD 5' MIN. WIDTH AND LENGTH PER DET. 3 ON SHEET C102. $\langle 23 \rangle$ REMOVE AND RELOCATE FENCE WITHIN 2' OF PROPERTY LINE.
- $\langle 24 \rangle$ CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% (MAX) IN ALL DIRECTIONS.
- $\langle \overline{25} \rangle$ PROVIDE TRASH ENCLOSURE PER ARCHITECT'S PLANS.
- $\langle 26 \rangle$ SITE WALL/FENCE PER ARCHITECT'S PLANS.
- $\langle \overline{27} \rangle$ Install speed bump per architect's plan.
- EXISTING FLOOD IRRIGATION STRUCTURE. REFER TO THE LANDSCAPING PLANS FOR DETAILS.
- 29 CONSTRUCT WALL PER ARCHITECT'S PLAN.
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- 32 PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- 33 INSTALL CURB AND SIDEWALK PER PLAN. IUKIN DUWIN SIDEWALK & COLD I LIN COP S.D. P1243 SIDEWALK & CROSSWALK WIDTH AND SLOPE PER COP S.D. P1243. INSTALL CURB AND SIDEWALK PER PLAN. TURN DOWN SIDEWALK & CURB PER (34) INSTALL CONCRETE SCUPPER PER DETAIL 8 ON SHEET C102 AT EACH DOWNSPOUT / LOCATION (REFER TO ARCHITECTS PLANS FOR LOCATION)
- CONNECT ROOF & OVERFLOW LEADERS TO STORMDRAIN SPEET C102

SEE ARCHITECTS PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.

DAVID G.

LAREDO

CAUTION: EXISTING UNDERGROUND FACILITIES WITHIN PROJECT VICINITY, OUTSIDE OF IMMEDIATE PROJECT LIMITS. CONTRACTOR TO CONFIRM LOCATION AND PROTECT IN PLACE

CAUTION: PROPOSED DEMOLITION ABOVE EXISTING COX UTILITIES. PROCEED WITH CAUTION & PROTECT IN PLACE



602.263.1100

C107

UBBARD ENGINEERING www.hubbardengineering.com 1201 S. Alma School Rd., Ste. 12000 - Mesa, AZ 85210 Ph: 480.892.3313

Project No. Sheet No. 17129 03/15/2018 Project Manager Project Engineer D. LAREDO, P.E. M. WOLF, P.E.

JAR SCI

DAVID G.

LAREDO

CONSTRUCTION

Checked

Revised

NEVITT ELEMENTARY SCHOOL PHOENIX, AZ. 85042 GRADING PLAN

HW = 66.50

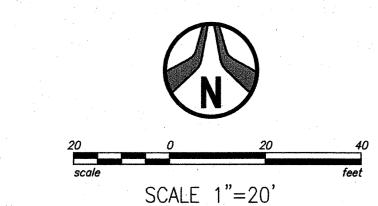
MATCH SHEET C107

"ST. CATHERINE AVE.

06-1972-0233

TP=64.62

PAVEMENT



GRADING NOTES:

- PROTECT EXISTING STRUCTURE
- (2) EXISTING CONCRETE PEDESTALS
- (3) REMOVE EXISTING CURB AND GUTTER.
- SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT
 THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX
 SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200—TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR,
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 NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
- 5 APPLY TYPE III SLURRY SEAL TO FULL WIDTH OF LOCAL STREET. TREATMENT MUST EXTEND A MINIMUM OF 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS.
- 6 CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS. 7 CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. S.D. P-1255-1.

- (CONSTRUCT MONOLITHIC CONCRETE SIDEWALK PER DETAILS 4&5 ON SHEET C102.) *REFER TO C.O.P. S.D. P−1230.*
- CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 203
- CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 206
- PROVIDE 3' CURB OPENING PER DTL. 1 ON SHEET C102.
- INSTALL VERTICAL CONCRETE CURB & GUTTER PER MAG S.D. 220-1 TYPE 'A'.

- 19 NEW 30" ADS NON-TRAFFIC DRAIN BASIN W/24" STANDARD GRATE
 SEE DETAIL ON SHEET C102. INVERT PER PLAN
- (INSTALL HDPE STORM DRAIN PIPE SIZE AND SLOPE PER PLAN ROOF & OVER FLOWS 12 LEADERS TO CONNECT TO THE NEAREST STORMDRAIN PIPE. INSTALL INLET/OUTLET HEADWALL & TRASH RACK PER MAG S.D. 501.4 & 502.2 22 INSTALL ROCK PAD 5' MIN. WIDTH AND LENGTH PER DET. 3 ON SHEET C102.
- $\langle 23 \rangle$ REMOVE AND RELOCATE FENCE WITHIN 2' OF PROPERTY LINE.
- $\langle 24 \rangle$ CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% (MAX) IN ALL DIRECTIONS.
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- $\langle 26 \rangle$ SITE WALL/FENCE PER ARCHITECT'S PLANS.
- $\langle 27 \rangle$ INSTALL SPEED BUMP PER ARCHITECT'S PLAN.
- 28 EXISTING FLOOD IRRIGATION STRUCTURE. KE EXISTING FLOOD IRRIGATION STRUCTURE. REFER TO THE LANDSCAPING PLANS FOR
- 29 CONSTRUCT WALL PER ARCHITECT'S PLAN.
- $\langle 30 \rangle$ INSTALL ACCESSIBLE RAMP PER DETAIL 6 ON SHEET C102.
- 31 DEPRESS AREA 6" MIN. U.N.O.
- $\left\langle 32\right\rangle$ PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- , INSTALL CURB AND SIDEWALK PER PLAN. TURN DOWN SIDEWALK & CURB PER COP S.D. P1243. SIDEWALK & CROSSWALK WIDTH AND SLOPE PER COP S.D. P1243.

 INSTALL CONCRETE SCUPPER PER DETAIL 8 ON SHEET C102 AT EACH DOWNSPOUT LOCATION (REFER TO ARCHITECTS PLANS FOR LOCATION) 35) CONNECT ROOF & OVERFLOW LEADERS TO STORMDRAIN
 PER ADS DETAIL 1003 IN SHEET C102
- SEE ARCHITECTS PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND

OTHER PERTINENT INFORMATION.

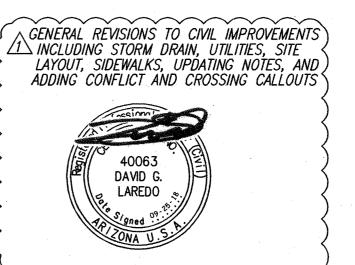
CAUTION AERIAL FACILITIES WITHIN PROJECT LIMITS. PROTECT IN PLACE - PROCEED WITH CAUTION

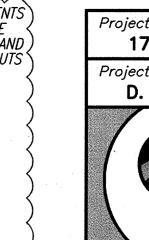
CAUTION: PROPOSED CONSTRUCTION UNDER COX AERIAL FACILITIES

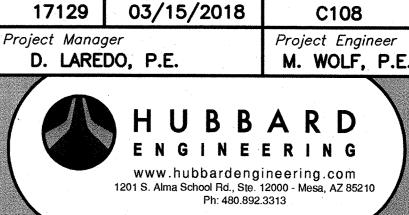


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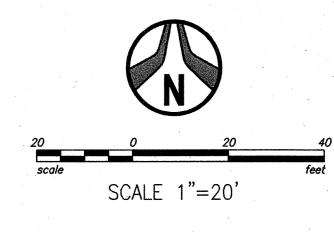




LAREDO

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CONSTRUCTIO



GRADING NOTES:

- 7 PROTECT EXISTING STRUCTURE
- 2 EXISTING CONCRETE PEDESTALS
- 3 REMOVE EXISTING CURB AND GUTTER.
- SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT
 THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX
 SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200—TYPE

B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.

- 5 APPLY TYPE III SLURRY SEAL TO FULL WIDTH OF LOCAL STREET. TREATMENT MUST EXTEND A MINIMUM OF 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS.
- 6 CONSTRUCT HEAVY—DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- 7 CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- 8 INSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. S.D. P-1255-1.
- g INSTALL SINGLE CURB PER MAG S.D. 222 TYPE B.
- (10) INSTALL ROLL CURB PER MAG S.D. 220-1 TYPE 'C'.
- CONSTRUCT MONOLITHIC CONCRETE SIDEWALK PER DETAILS 4&5 ON SHEET C102.
- (12) CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 203
- CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 206
- 14 PROVIDE 3' CURB OPENING PER DTL. 1 ON SHEET C102.
- (15) INSTALL VERTICAL CONCRETE CURB & GUTTER PER MAG S.D. 220-1 TYPE 'A'.
- (16) CONSTRUCT SIDEWALK RAMP PER DETAIL 6 ON SHEET C102.
- CONSTRUCT CONCRETE 2' VALLEY GUTTER PER COP S.D. P1021 (18) CONSTRUCT SPEED TABLE WITH CROSSWALK PER DETAIL 2 ON SHEET C102.
- 19 NEW 30" ADS NON-TRAFFIC DRAIN BASIN W/24" STANDARD GRATE
 SEE DETAIL ON SHEET C102. INVERT PER PLAN
- 20 INSTALL ROCK SPILLWAY PER DETAIL 3 ON SHEET CTO2.
- 21 (INSTALL HDPE STORM DRAIN PIPE SIZE AND SLOPE PER PLAN ROOF & OVER FLOWS LEADERS TO CONNECT TO THE NEAREST STORMDRAIN PIPE.

 22 INSTALL INLET/OUTLET, HEADWALL & TRASH RACK PER MAG S.D. 501.4 & 502.2 INSTALL ROCK PAD 5' MIN. WIDTH AND LENGTH PER DET. 3 ON SHEET C102.
- (23) REMOVE AND RELOCATE FENCE WITHIN 2' OF PROPERTY LINE.
- $\langle 24 \rangle$ CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% (MAX) IN ALL DIRECTIONS.
- $\langle 25 \rangle$ PROVIDE TRASH ENCLOSURE PER ARCHITECT'S PLANS.
- $\langle 26 \rangle$ SITE WALL/FENCE PER ARCHITECT'S PLANS.
- 27) INSTALL SPEED BUMP PER ARCHITECT'S PLAN.
- 28 EXISTING FLOOD IRRIGATION STRUCTURE. REFER TO THE LANDSCAPING PLANS FOR DETAILS
- 29 CONSTRUCT WALL PER ARCHITECT'S PLAN. 1 30 INSTALL ACCESSIBLE RAMP PER DETAIL 6 ON SHEET C102.
- (31) DEPRESS AREA 6" MIN. U.N.O.
- 32) PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- 33 INSTALL CURB AND SIDEWALK PER PLAN. TURN DOWN SIDEWALK & CURB PER COP S.D. P1243. SIDEWALK & CROSSWALK WIDTH AND SLOPE PER COP S.D. P1243. INSTALL CONCRETE SCUPPER PER DETAIL 8 ON SHEET C102 AT ÉACH DÓWNSPOUT LOCATION (REFER TO ARCHITECTS PLANS FOR LOCATION)
- CONNECT ROOF & OVERFLOW LEADERS TO STORMDRAIN SPEET C102

SEE ARCHITECTS PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.

CAUTION AERIAL FACILITIES WITHIN PROJECT LIMITS. PROTECT IN PLACE - PROCEED WITH CAUTION

CAUTION: PROPOSED CONSTRUCTION UNDER COX AERIAL FACILITIES



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— PIPE 1

SRP UTILITY EASEMENT CROSSING NTS

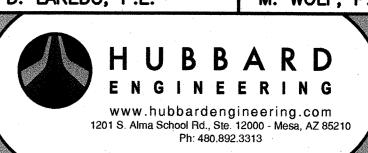
CROSSING

SEPARATION

MINIMUM 2' VERTICAL



17129 03/15/2018 C109 Project Manager Project Engineer D. LAREDO, P.E. M. WOLF, P.E.



AR SCI

DAVID G.

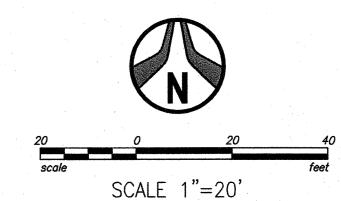
LAREDO

Date 03/15/18 Revised

CONSTRUCTIO

Checked

MATCH SHEET C109



GRADING NOTES:

- 7 PROTECT EXISTING STRUCTURE
- 2 EXISTING CONCRETE PEDESTALS
- 3 REMOVE EXISTING CURB AND GUTTER.
- SAWCUT AND REMOVE AC PAVEMENT. PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND CITY OF PHOENIX SUPPLEMENT SECTION 336 AND CITY OF PHOENIX DETAIL P1200—TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER M.A.G. STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER CITY OF PHOENIX DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX ROW, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX ROW.
- APPLY TYPE III SLURRY SEAL TO FULL WIDTH OF LOCAL STREET. TREATMENT MUST EXTEND A MINIMUM OF 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS.
- CONSTRUCT HEAVY-DUTY ASPHALT PAVEMENT, 3" AC OVER 8" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- CONSTRUCT LIGHT-DUTY ASPHALT PAVEMENT, 2 1/2" AC OVER 6" ABC OVER 12" PREPARED SUBGRADE. PER GEOTECH SPECS.
- NSTALL DRIVEWAY ENTRANCE TYPE II PER C.O.P. S.D. P-1255-1.
- 9 INSTALL SINGLE CURB PER MAD S.D. 220_1 TYPE 'C (INSTALL SINGLE CURB PER MAG S.D. 222 TYPE B.
- (10) INSTALL ROLL CURB PER MAG S.D. 220-1 TYPE 'C'.
- CONSTRUCT MONOLITHIC CONCRETE SIDEWALK PER DETAILS 4&5 ON SHEET C102. REFER TO C.O.P. S.D. P-1230.
- $\langle 12 \rangle$ CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 203
- CONSTRUCT CONCRETE SIDEWALK SCUPPER PER MAG S.D. 206
- PROVIDE 3' CURB OPENING PER DTL. 1 ON SHEET C102.
- INSTALL VERTICAL CONCRETE CURB & GUTTER PER MAG S.D. 220-1 TYPE 'A'.
- CONSTRUCT SIDEWALK RAMP PER DETAIL 6 ON SHEET C102.
- CONSTRUCT CONCRETE 2' VALLEY GUTTER PER COP S.D. P1021
- (18) CONSTRUCT SPEED TABLE WITH CROSSWALK PER DETAIL 2 ON SHEET C102. NEW 30" ADS NON-TRAFFIC DRAIN BASIN W/24" STANDARD GRATE

 19 SEE DETAIL ON SHEET C102. INVERT PER PLAN
- 20 INSTALL ROCK SPILLWAY PER DETAIL 3 ON SHEET C102.
- (INSTALL HDPE STORM DRAIN PIPE SIZE AND SLOPE PER PLAN ROOF & OVER FLOWS LEADERS TO CONNECT TO THE NEAREST STORMDRAIN PIPE.
- 22 INSTALL INLET/OUTLET, HEADWALL & TRASH RACK PER MAG S.D. 501.4 & 502 INSTALL ROCK PAD 5' MIN. WIDTH AND LENGTH PER DET. 3 ON SHEET C102. (23) REMOVE AND RELOCATE FENCE WITHIN 2' OF PROPERTY LINE.
- (24) CONSTRUCT ACCESSIBLE PARKING PER ARCHITECT'S PLANS. 2% (MAX) IN ALL DIRECTIONS.
- $\langle \overline{25} \rangle$ PROVIDE TRASH ENCLOSURE PER ARCHITECT'S PLANS.
- $\langle 26 \rangle$ SITE WALL/FENCE PER ARCHITECT'S PLANS.
- $\langle \overline{27} \rangle$ Install speed bump per architect's plan.
- 28 EXISTING FLOOD IRRIGATION STRUCTURE. REFER TO THE LANDSCAPING PLANS FOR DETAILS.
- (29) CONSTRUCT WALL PER ARCHITECT'S PLAN.)
- (30) INSTALL ACCESSIBLE RAMP PER DETAIL 6 ON SHEET C102.
- (31) DEPRESS AREA 6" MIN. U.N.O.
- 32 PLAY FIELDS MUST BE FINE GRADED, NO LARGE RIVER ROCKS OR BOULDERS.
- INSTALL CURB AND SIDEWALK PER PLAN. TURN DOWN SIDEWALK & CURB PER 33) COP S.D. P1243 SIDEWALK & CROSSWALK WIDTH AND SLOPE PER COP S.D. P1243 (34) INSTALL CONCRETE SCUPPER PER DETAIL 8 ON SHEET C102 AT EACH DOWNSPOUT /1
- CONNECT ROOF & OVERFLOW LEADERS TO STORMDRAIN PER ADS DETAIL 1003 IN SHEET C102

SEE ARCHITECTS PLANS FOR ADDITIONAL DIMENSIONS, CONCRETE SCORING AND OTHER PERTINENT INFORMATION.

CAUTION: EXISTING UNDERGROUND FACILITIES WITHIN PROJECT VICINITY, OUTSIDE OF IMMEDIATE PROJECT LIMITS. CONTRACTOR TO CONFIRM LOCATION AND PROTECT IN PLACE

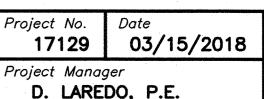
CAUTION: COX FACILITIES (VAULTS, HANDHOLE, MANHOLES, AND/OR SURFACE MOUNTS) WITHIN PROJECT VICINITY BUT OUTSIDE OF IMMEDIATE CONSTRUCTION AREA. PROTECT IN PLACE

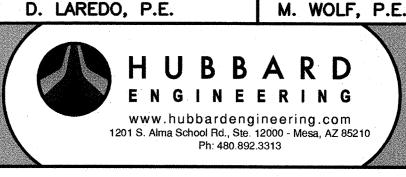


C110

Project Engineer

602.263.1100 Sheet No.







Drawn Checked Date 03/15/18 Revised

CONSTRUCTION

