

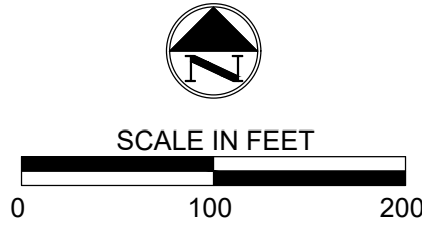
CITY OF PHOENIX GRADING & DRAINAGE NOTES

- 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.
- PLANNING AND 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 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.
- GRADES SHOWN IN RETENTION BASINS ARE DESIGN FINISHED GRADES. SHOULD THE CONTRACTOR OR ANY SUB-CONTRACTOR 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.
- 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.
- 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 SLOPES GREATER THAN 5:1.
- ALL RETAINING WALLS 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 OVER-HEIGHT RETAINING WALLS.
- 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
- CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL GRADING AND DRAINAGE IMPROVEMENTS ARE COMPLETED
- 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
- 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.
- 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)
- PLAN APPROVAL IS VALID FOR 12 MONTHS. PRIOR TO PLAN APPROVAL EXPIRATION, ALL ASSOCIATED PERMITS SHALL BE PURCHASED OR THE 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.
- 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.
- 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.
- 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 AND TRANSPORTATION DEPARTMENT AT (602) 534-9898.
- PER THE CITY OF PHOENIX ORDINANCE G-6308. ALL STREET PAVEMENT CUTS WILL REQUIRE ASPHALT RESURFACING TREATMENTS BASED ON THE AGE OF THE PAVEMENT. FOR STREETS LESS THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY AN ASPHALT MILL AND OVERLAY PAVEMENT TREATMENT. FOR STREETS GREATER THAN TWO YEARS OLD, THE PERMITTEE MUST APPLY A SLURRY SEAL AND/OR MICROSEAL TREATMENT.

DRYWELL INSTALLATION NOTES

- THE OWNER/DEVELOPER SHALL BE RESPONSIBLE FOR REGISTERING THE DRY WELLS SHOWN ON THE GRADING AND DRAINAGE PLAN WITH THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY (A.D.E.Q.). FOR INFORMATION ABOUT SPECIFIC REQUIREMENTS, CONTACT THE WATER PERMITS UNIT AT (602) 771-4896.
- DRY WELLS MUST BE DRILLED A MINIMUM OF 10 FEET INTO PERMEABLE POROUS STRATA OR PERCOLATION TESTS WILL BE REQUIRED. THE GRADING AND DRAINAGE INSPECTOR MUST BE PRESENT BEFORE BACKFILL OR WELL PIPES ARE PLACED WITHIN ANY DRY WELLS.
- THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.

KEY MAP



LEGEND & ABBREVIATIONS

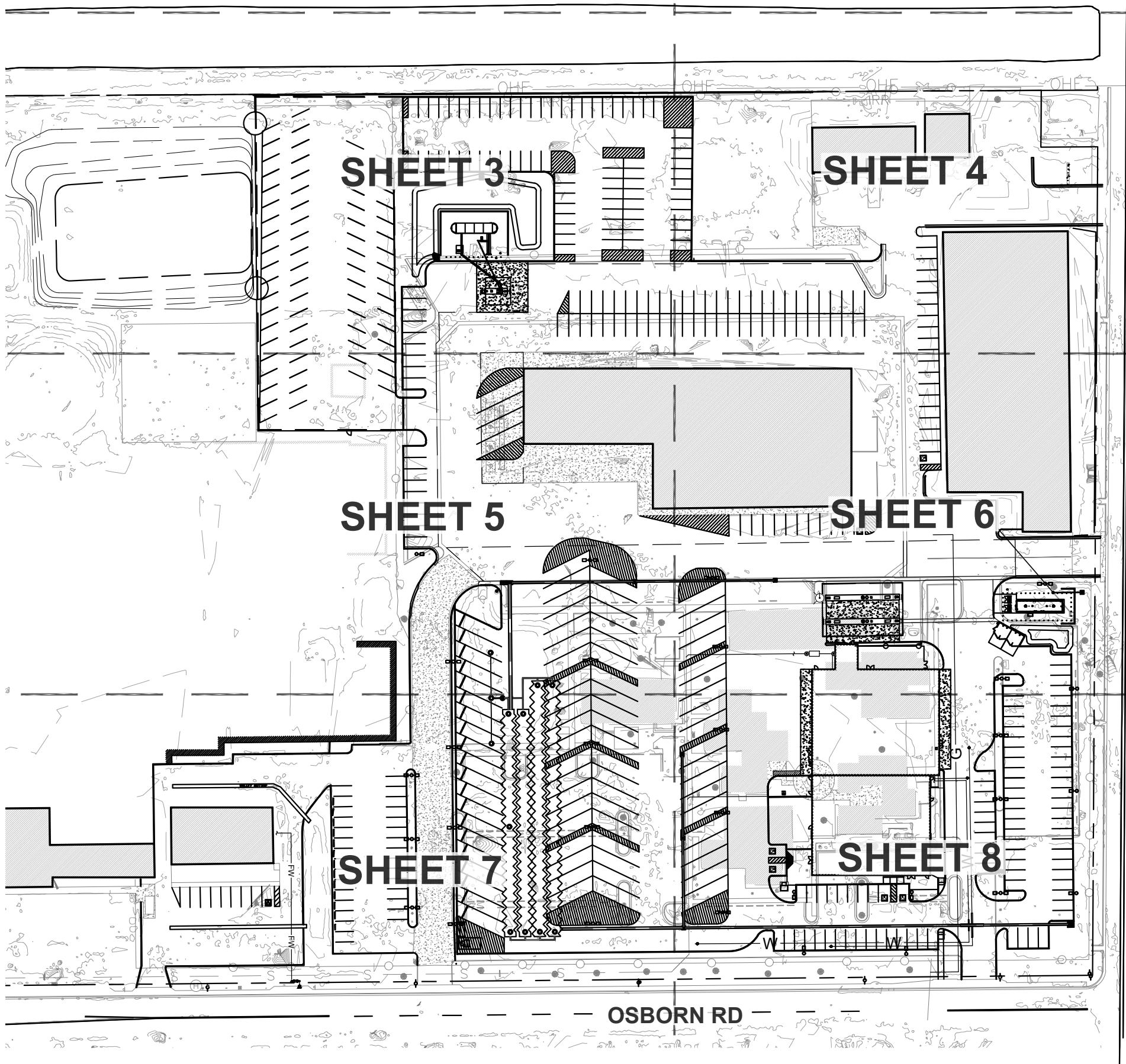
---	---	MONUMENT LINE
---	---	RIGHT-OF-WAY
---	---	PROPERTY LINE
---	---	EASEMENT LINE
---	---	CENTERLINE
---	1235	EXISTING CONTOUR
---	---	PHASE LINE
---	G	EXISTING GAS LINE
---	S	EXISTING SANITARY SEWER
---	W	EXISTING WATERLINE
---	SD	EXISTING STORM DRAIN
---	IR	EXISTING IRRIGATION LINE
---	COMM	EXISTING COMMUNICATIONS LINE
---	P	EXISTING UNDERGROUND POWER LINE
---	UNK	UNKNOWN UNDERGROUND UTILITY
---	---	EXISTING CURB/GUTTER
---	---	JUNCTION BOX
---	---	METER
---	---	PEDESTAL
---	---	POLE
---	---	TRANSFORMER
---	---	LIGHT
---	---	VAULT
---	---	RISER
---	---	HYDRANT
---	---	STORM DRAIN INLET
---	---	MANHOLE
---	---	CLEANOUT
---	---	FIRE DEPARTMENT CONNECTION
---	---	VALVE

BLDG	BUILDING
C	CONCRETE
C&G	CURB AND GUTTER
CO	CURB OPENING
CMP	CORRUGATED METAL PIPE
DIA	DIAMETER
ESMT	EASEMENT
EX	EXISTING
FFE	FINISHED FLOOR ELEVATION
FL	FLOWLINE
G	GUTTER

GR	GRATE
LS	LANDSCAPE
MH	MANHOLE
M.C.R.	MARICOPA COUNTY RECORDER
P	PAVEMENT
PROP	PROPOSED
PUE	PUBLIC UTILITY EASEMENT
ROW	RIGHT OF WAY
SB	SETBACK
SS	SANITARY SEWER
TC	TOP OF CURB
TYP	TYPICAL

GRADING & DRAINAGE PLAN FOR:
PUHSD DISTRICT SUPPORT FACILITY
2526 W OSBORN RD
PHOENIX, AZ 85017

LOCATED IN THE NORTHWEST QUARTER OF SECTION 25, TOWNSHIP 2N, RANGE 2E,
OF THE GILA AND SALT RIVER MERIDIAN, MARICOPA COUNTY, ARIZONA



ONSITE CONSTRUCTION QUANTITIES			
ITEM	PAVING	QTY	UNIT
1	AC PAVEMENT - 3" ACC ON 8" ABC	5,752	SY
2	AC PAVEMENT - 4" ACC ON 9" ABC	10,062	SY
3	AC PAVEMENT - 2" ACC ON 6" ABC	4,482	SY
4	SINGLE CURB, TYPE "A" (MAG STD DTL. 222)	3,594	LF
5	VERTICAL CURB & GUTTER TYPE "A" (MAG STD DTL. 220-1)	43	LF
6	CURB TERMINATION (MAG STD DTL. 222)	4	EA
7	DEPRESSED CURB OPENING	6	EA
8	3' WIDE VALLEY GUTTER (MAG STD DETL. 222)	329	LF
9	6" CLASS "A" CONCRETE (MAG SECTION 725)	55	SY
10	8" CLASS "A" CONCRETE (MAG SECTION 725)	643	SY
11	CONCRETE SIDEWALK (C.O.P. STD. DETAIL P1230)	559	SY
12	PEDESTRIAN RAMP (DETAIL 6, SHEET 8)	2	EA
13	PEDESTRIAN RAMP (MAG DTL 238-1)	1	EA
14	PEDESTRIAN RAMP (MAG DTL 238-3)	1	EA
15	SIGNING & STRIPING (COP SECTION 702.G)	6	EA
16	REFUSE ENCLOSURE	1	EA
17	6' BLOCK PERIMETER WALL	800	LF
ITEM	STORM DRAIN	QTY	UNIT
18	10" DIA. CMP PIPE	850	LF
19	10" CMP BULKHEAD	8	EA
20	CMP ACCESS RISER	8	EA
21	2'X2' CATCH BASIN TYPE G (MAG STD DTL. 537)	5	EA
22	2'X4' CATCH BASIN TYPE G (MAG STD DTL. 537)	4	EA
23	NYLOPLAST JUNCTION BOX	1	EA
24	4" HDPE STORM DRAIN	26	LF
25	12" HDPE STORM DRAIN	135	LF
26	15" HDPE STORM DRAIN	197	LF
27	18" HDPE STORM DRAIN	529	LF
28	24" HDPE STORM DRAIN	221	LF
29	6" RIPRAP	4	CY
30			

PUBLIC CONSTRUCTION QUANTITIES			
ITEM	PAVING	QTY	UNIT
1	CONCRETE SIDEWALK (C.O.P. STD. DETAIL P1230)	1	SY
2	(RESERVED)		

SHEET INDEX

GD 01	COVER SHEET
GD 02	NOTES & DETAILS
GD 03 TO GD 08	GRADING & DRAINAGE PLAN

REVISIONS

1	03/26/2021	V.E. COORDINATION
2	03/22/2022	NORTH PARKING LOT
3	02/07/2023	RAISE GARAGE FFE
4	10/18/2023	REVISE GRADING FOR ADA

PROPERTY & DESIGN INFORMATION

APN	110-20-002 & 110-20-003A
GROSS AREA	21,808 AC± (949,969 SF±)
NET AREA	20,190 AC± (879,476 SF±)
ZONING	R1-6

CIVIL ENGINEER

AMENT PROFESSIONAL SERVICES
1838 W. PARKSIDE LANE #105
PHOENIX, ARIZONA 85027

CONTACT: KAMERON TOBIN, PE
PHONE: 480-656-0191
EMAIL: KAMERON@AMENTPRO.COM

LANDSCAPE ARCHITECT

THOMAS+CROWLEY
1150 N. COUNTRY CLUB DR. SUITE 11
MESA, AZ 85201

CONTACT: CRAIG CROWLEY
PHONE: 480-878-4708
EMAIL: CRAIG@THOMAS-CROWLEY.COM

ARCHITECT

SPS PLUS ARCHITECTS
8681 E VIA DE NEGOCIO
SCOTTSDALE, AZ 85258

CONTACT: BRENT HEATON
PHONE: (480) 991-0800
EMAIL: BRENT@SPSPULSARCHITECTS.COM

PROPERTY OWNER

CITY OF PHOENIX
2526 W OSBORN RD,
PHOENIX, AZ, ARIZONA, 85017

CONTACT: JARED REYNOLDS
PHONE: 602-764-1613
EMAIL: REYNOLDS@PHOENIXUNION.ORG

PROJECT DESCRIPTION

PAVING, GRADING & DRAINAGE IMPROVEMENTS FOR MAJOR RENOVATION OF PHOENIX UNION SCHOOL DISTRICT SUPPORT FACILITY.

BENCHMARK

THE CITY OF PHOENIX BRASS CAP IN HAND HOLE AT INTERSECTION OF 27TH AVE AND OSBORN RD (OBJECT ID 513). HAVING A PUBLISHED ELEVATION = 1106.468' (NAVD 1929 DATUM).

BASIS OF BEARING

THE MONUMENT LINE OF OSBORN ROAD, BEING THE MIDSECTION LINE OF SECTION 25, BEARING NORTH 89° 27' 50" EAST.

FLOOD ZONE

FLOOD ZONE DESIGNATION "X" PER F.E.M.A. FLOOD INSURANCE RATE MAP, MAP NUMBERS 04013C2205L, PANEL 2205 OF 4425, DATED 10/16/13.

ZONE "X" - AREAS OF 0.2% ANNUAL CHANCE FLOOD; AREAS OF 1% ANNUAL CHANCE FLOOD WITH AVERAGE DEPTHS OF LESS THAN 1 FOOT OR WITH DRAINAGE AREAS LESS THAN 1 SQUARE MILE; AND AREAS PROTECTED BY LEVEES FROM 1% ANNUAL CHANCE FLOOD.

DRAINAGE STATEMENT & CALCULATIONS

SITE IS IN A SPECIAL FLOOD HAZARD AREA (Y) (N) OFFSITE FLOWS AFFECT THIS SITE (Y) (N) MARYVALE ADMS OR (N/A) RETENTION PROVIDED IS FOR THE 100-YEAR, 2-HOUR STORM EVENT EXTREME STORM OUTFALLS THE SITE AT:

SOUTHWEST ENTRANCE AT THE ELEVATION OF 1107.41

AS-BUILT CERTIFICATION

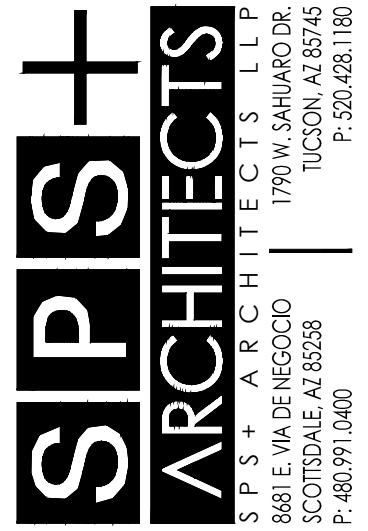
I HEREBY CERTIFY THAT THE "RECORD DRAWING" MEASUREMENTS AS SHOWN HEREON WERE MADE UNDER MY SUPERVISION OR AS NOTED AND ARE CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

REGISTERED ENGINEER REG. NO. DATE

DISTRICT SUPPORT FACILITY - MAIN BUILDING

PHOENIX UNION HIGH SCHOOL DISTRICT
2526 W. OSBORN ROAD
PHOENIX, AZ 85017

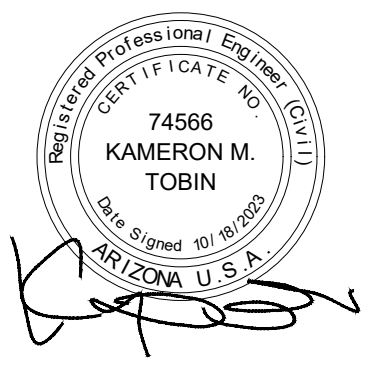
G & D COVER SHEET



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REVISIONS		
REV#	DATE	DESCRIPTION
1	03/26/2021	V.E. COORD.
2	03/22/2022	ADD N.W. PARKING
3	02/07/2023	RAISE GARAGE FFE
4.2	10/18/2023	REVISE GRADING

REVIEWED BY: KMT
DRAWN BY:



ORIGINAL ISSUE
DATE: 07.29.2022

JOB No: 2025

SHEET:

GD 01

SEQUENCE #:

NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.

2. THE ENGINEER WILL NOT BE RESPONSIBLE FOR CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES, OR PROCEDURES OR FOR SAFETY PRECAUTIONS OR PROGRAMS UTILIZED IN CONNECTION WITH THE WORK, AND THEY WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

3. THE SURVEYOR WILL NOT BE RESPONSIBLE FOR CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. CONSTRUCTION STAKING DOES NOT REPLACE CONTRACTOR'S RESPONSIBILITY TO READ AND CONSTRUCT IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.

4. THE ENGINEER SHALL BE NOTIFIED IF DURING ANY PHASE OF CONSTRUCTION, OWNER OR CONTRACTOR DISCOVERS OR IS MADE AWARE OF SITE CONDITION CHANGES OR OTHER CONDITIONS WHICH NECESSITATE ADDITIONAL ENGINEERING INVESTIGATION, DESIGN MODIFICATION OR OTHER AMENDMENTS TO PLANS, SPECIFICATIONS, AND/OR ESTIMATES, BEFORE CONSTRUCTION OR ACTIVITIES PROCEED. THESE PLANS ARE SUBJECT TO THE INTERPRETATION OF INTENT BY THE ENGINEER. ANY QUESTIONS CONCERNING THE ACCURACY OF IMPROVEMENT PLANS OR DESIGN CONFLICTS SHALL BE RAISED PRIOR TO COMPLETION OF THE WORK.

5. ESTIMATED QUANTITIES ARE FOR INFORMATION PURPOSES ONLY. THE ENGINEER MAKES NO GUARANTEES AS TO THEIR ACCURACY. CONTRACTOR SHALL MAKE AN INDEPENDENT DETERMINATION OF QUANTITIES AND WORK REQUIRED TO COMPLETE THE IMPROVEMENTS IN ACCORDANCE WITH THE PLANS PRIOR TO BIDDING.

6. CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION REGULATIONS.

7. CONTRACTOR AND SUBCONTRACTORS SHALL ASSUME SOLE AND COMPLETE RESPONSIBILITY FOR PROJECT SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION, INCLUDING SAFETY OF ALL PERSONS, AT ALL TIMES. THE ENGINEER'S PRESENCE ON THE CONSTRUCTION SITE SHALL NOT RELIEVE THE CONTRACTOR OR ITS SUBCONTRACTORS OF THEIR OBLIGATIONS, DUTIES AND RESPONSIBILITIES FOR ALL FACETS OF SITE CONSTRUCTION AND SAFETY. THE CONTRACTOR SHALL CONSTRUCT AND MAINTAIN ALL SAFETY DEVICES CONFORMING TO ALL LOCAL, STATE, AND FEDERAL SAFETY AND HEALTH STANDARDS, LAWS AND REGULATIONS.

8. CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF OVERHEAD TRANSMISSION LINES OR UNDERGROUND UTILITIES.

9. THE CONTRACTOR IS RESPONSIBLE TO LOCATE ALL UNDERGROUND UTILITIES PRIOR TO ANY EXCAVATION WORK AND TO TAKE NECESSARY PRECAUTIONS TO AVOID DAMAGING THE UTILITIES.

10. TO THE BEST OF OUR KNOWLEDGE ALL UTILITIES SHOWN ON THE DRAWINGS ARE BELIEVED TO BE ACCURATE THROUGH THE SEARCH OF AVAILABLE RECORDS. THE ENGINEER AND OWNER DO NOT GUARANTEE ANY LOCATIONS AS SHOWN ON THESE PLANS OR THOSE OMITTED FROM SAME. LOCATIONS SHOWN ARE APPROXIMATE AND NOT RELIABLE FOR CONSTRUCTION. CALL BLUE STAKE FOR FIELD LOCATION (602) 263-1100.

11. THE CONTRACTOR SHALL PERFORM ANY NECESSARY EXCAVATIONS TO LOCATE AS-BUILT UNDERGROUND FACILITIES SUFFICIENTLY AHEAD OF CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IF REVISIONS TO PLANS ARE NECESSARY DUE TO ACTUAL LOCATIONS OF AS-BUILT FACILITIES.

12. THE CONTRACTOR SHALL BE RESPONSIBLE TO VERIFY IF "OTHER UTILITIES" (NOT SHOWN ON THE PLAN) EXIST WITHIN THE AREA OF CONSTRUCTION. SHOULD THERE BE "OTHER UTILITIES," THE CONTRACTOR SHALL NOTIFY THE RESPECTIVE UTILITY OWNERS TO RESOLVE UTILITY CONFLICTS AND OTHER UTILITY ADJUSTMENTS AS REQUIRED. ANY DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE APPROPRIATE SPECIFICATIONS AT THE CONTRACTOR'S EXPENSE.

13. CONTRACTOR IS RESPONSIBLE TO LEAVE ALL PIPE EXCAVATIONS OPEN UNTIL AS-BUILT DATA CAN BE COLLECTED BY THE OWNER'S REPRESENTATIVE TO COMPLY WITH CITY REQUIREMENTS. IF ANY TRENCHES ARE BACKFILLED PREVENTING AS-BUILT MEASUREMENTS, IT SHALL BE CONTRACTORS RESPONSIBILITY TO POTHOLE THE UTILITY TRENCHES AS NECESSARY TO COMPLETE THE AS-BUILT SURVEY.

14. FINISHED GRADES SHOWN ARE FINAL FINISHED GRADES. CONTRACTOR SHALL PERFORM ALL EXCAVATION NECESSARY AND MAKE ALLOWANCES FOR CONSTRUCTION MATERIALS TO MEET THE FINAL GRADES AS SHOWN.

15. THESE PLANS WERE DESIGNED AND APPROVED TO BE IN GENERAL CONFORMANCE TO CURRENT JURISDICTIONAL DEVELOPMENT STANDARDS. THE CONTRACTOR SHALL:

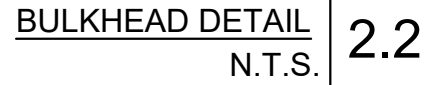
- REPORT DEVIATIONS, MATERIAL SUBSTITUTIONS, REMOVALS AND/OR ADDITIONS TO THE ENGINEER OF RECORD (EOR) WITH A MINIMUM OF 48-HOURS NOTICE IN ADVANCE TO DETERMINE ACCEPTABILITY OF DEVIATIONS.
- REPORT CONSTRUCTION INSTALLATIONS TO THE EOR THAT DO NOT STAY WITHIN JURISDICTIONAL CONSTRUCTION TOLERANCES.
- WITH 48 HOURS ADVANCE NOTICE, NOTIFY THE EOR OF ALL CONSTRUCTION OBSERVATIONS OR TESTING BEING CONDUCTED. OBSERVATION FREQUENCY OR POINTS OF CRITICAL ENGAGEMENT SHALL BE DETERMINED AT CONSTRUCTION COMMENCEMENT OR AS NEEDED.
- BE HELD RESPONSIBLE FOR CONSTRUCTION DEVIATIONS OR CONSTRUCTION OBSERVATIONS COMPLETED WITHOUT EOR KNOWLEDGE OR EOR APPROVAL WHICH MAY RESULT IN THE LOSS OF PROPERTY OR TIME.
- WITH 48 HOURS ADVANCE NOTICE, NOTIFY THE EOR OF CURB AND/OR GUTTER CONSTRUCTION SUCH THAT THE EOR MAY REVIEW STRINGLINES WITH THE CONTRACTOR PRIOR TO CONSTRUCTION. CONTRACTOR ASSUMES RESPONSIBILITY FOR ALL PLACED CURB AND/OR GUTTER IN THE EVENT THAT CONTRACTOR FAILS TO PROVIDE NOTICE TO THE ENGINEER.

14. A GEOTECHNICAL ENGINEERING INVESTIGATION, INCLUDING RECOMMENDATIONS FOR GRADING PROCEDURES HAS BEEN PREPARED BY SPEEDIE AND ASSOCIATES. ALL EARTHWORK OPERATIONS SHALL CONFORM TO THE RECOMMENDATIONS CONTAINED IN SAID REPORT, DATED 12/10/2020. A COPY OF THIS REPORT IS AVAILABLE FROM THE OWNER.

15. THE CONTRACTOR SHALL PROVIDE POSITIVE GRADE AWAY FROM ALL BUILDING FOUNDATIONS.



1



SPECIAL INSPECTION NOTE

- CMP/HDPE CONNECTION DETAIL 2.3
N.T.S.

○ NOTES

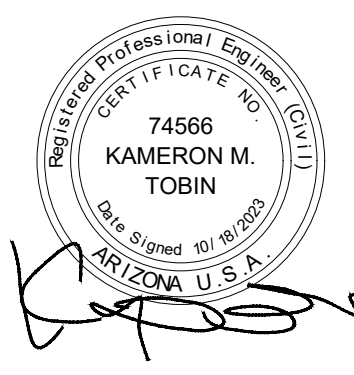
- AZ Lic. ROC070465 A, ROC047067 B-4, ADWR 363
CA Lic. 528080, C-42, HAZ.
NV Lic. 0035350 A - NM Lic. 90504 GF04

U.S. Patent No. 4,923,330 - TM Trademark 1974, 1990, 200



REVISIONS		
REV#	DATE	DESCRIPTION
1	03/26/2021	V.E. COORD.
2	03/22/2022	ADD N.W. PARKING
3	02/07/2023	RAISE GARAGE FFE
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REVIEWED BY: KMT
DRAWN BY:



ORIGINAL ISSUE
DATE: 07.29.2022

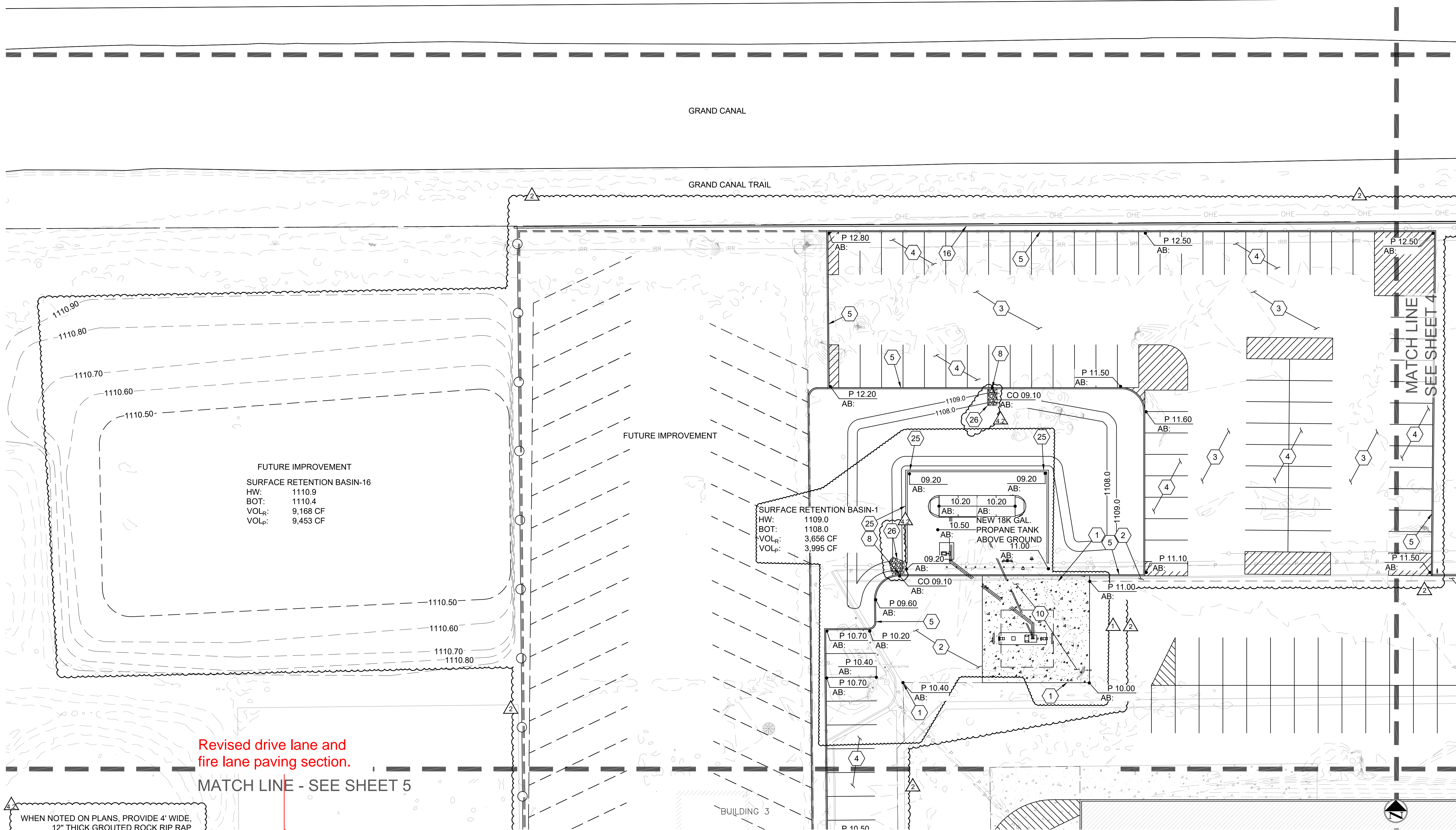
JOB No: 2025

SHEET:

GD 02

SEQUENCE #: _____

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Revised drive lane and
fire lane paving section.

MATCH LINE - SEE SHEET 5

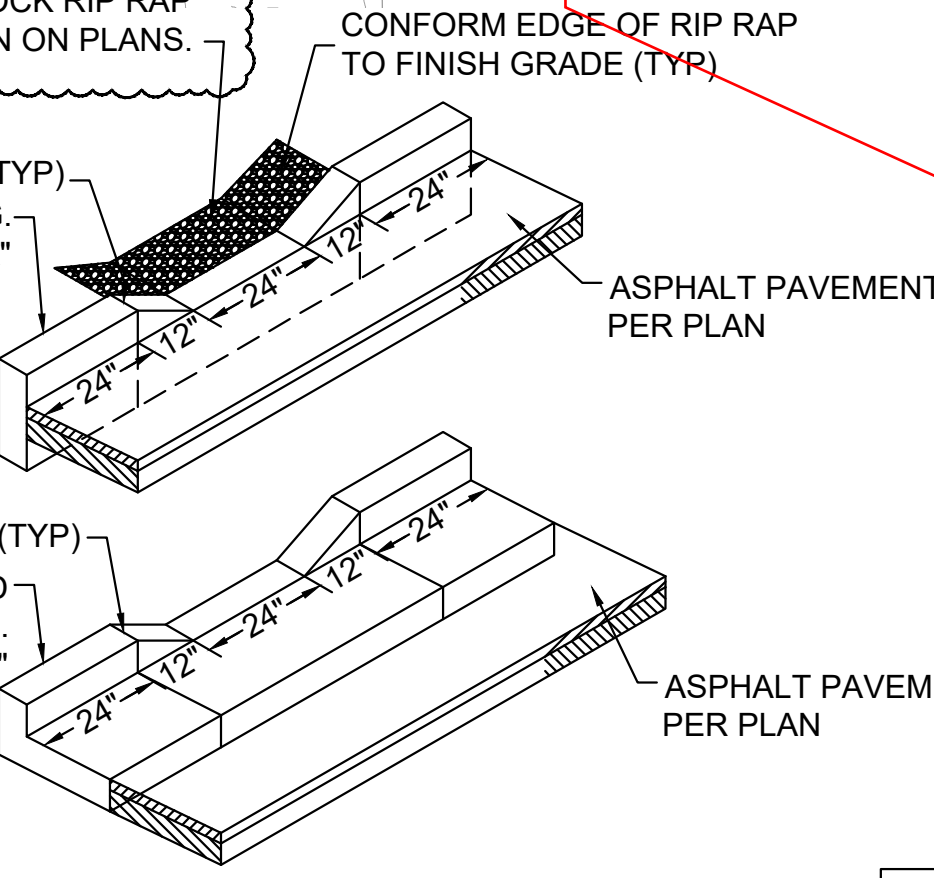
WHEN NOTED ON PLANS, PROVIDE 4' WIDE,
12" THICK GROUTED ROCK RIP RAP
(AVG D=6") TO LIMITS SHOWN ON PLANS.

EXPANSION JOINT (TYP)
SINGLE CURB PER M.A.G.
STD. DETAIL 222, TYPE "A"

NOTE:
TO BE USED WHEN
ADJACENT TO
SINGLE CURB OR
EXTRUDED CURB

EXPANSION JOINT (TYP)
VERTICAL CURB AND
GUTTER PER M.A.G.
STD. DETAIL 220, TYPE "A"

NOTE:
TO BE USED WHEN
ADJACENT TO
VERTICAL CURB
AND GUTTER



DEPRESSED CURB
N.T.S.

5

(X) PAVING, GRADING & DRAINAGE NOTES

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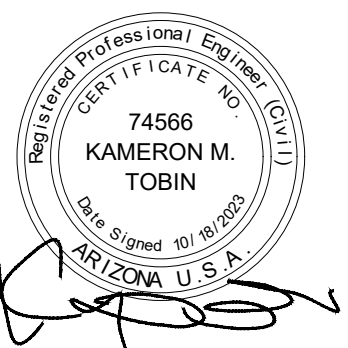
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16. INSTALL BLOCK PERIMETER WALL. SEE STRUCTURAL PLAN SHEET S010.
17. INSTALL HIGH DENSITY POLYETHYLENE (HDPE) STORM DRAIN PIPE, FOR BEDDING SEE M.A.G. STD. SPECIFICATION 601, SIZE, LENGTH, AND SLOPE PER PLAN.
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4.2	10/18/2023	REVISE GRADING

REVIEWED BY: KMT
DRAWN BY:



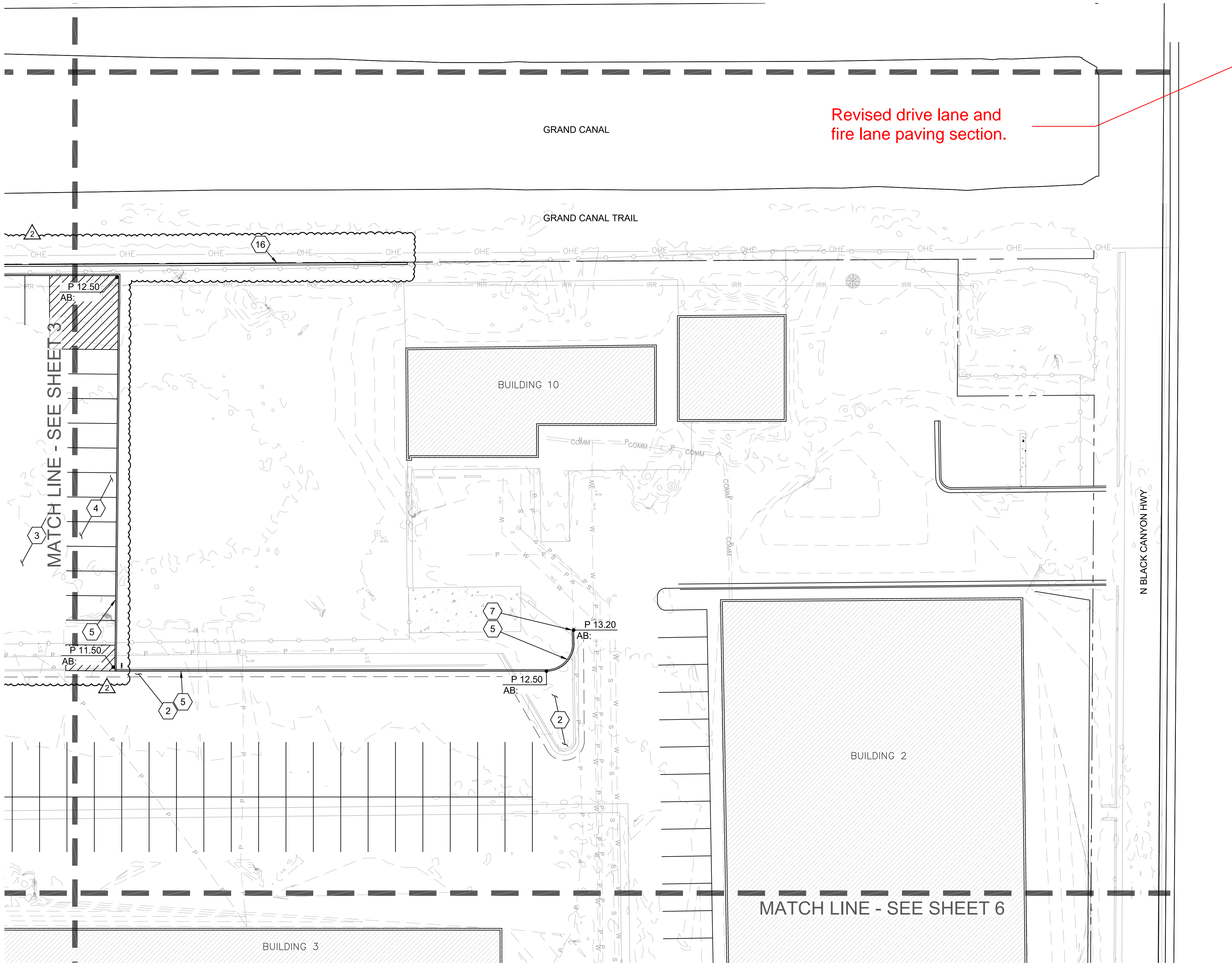
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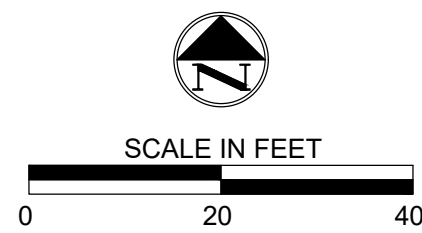
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GD 03

SEQUENCE #:



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DISTRICT SUPPORT FACILITY - MAIN BUILDING

PHOENIX UNION HIGH SCHOOL DISTRICT
2526 W. OSBORN ROAD
PHOENIX, AZ 85017

G & D PLAN

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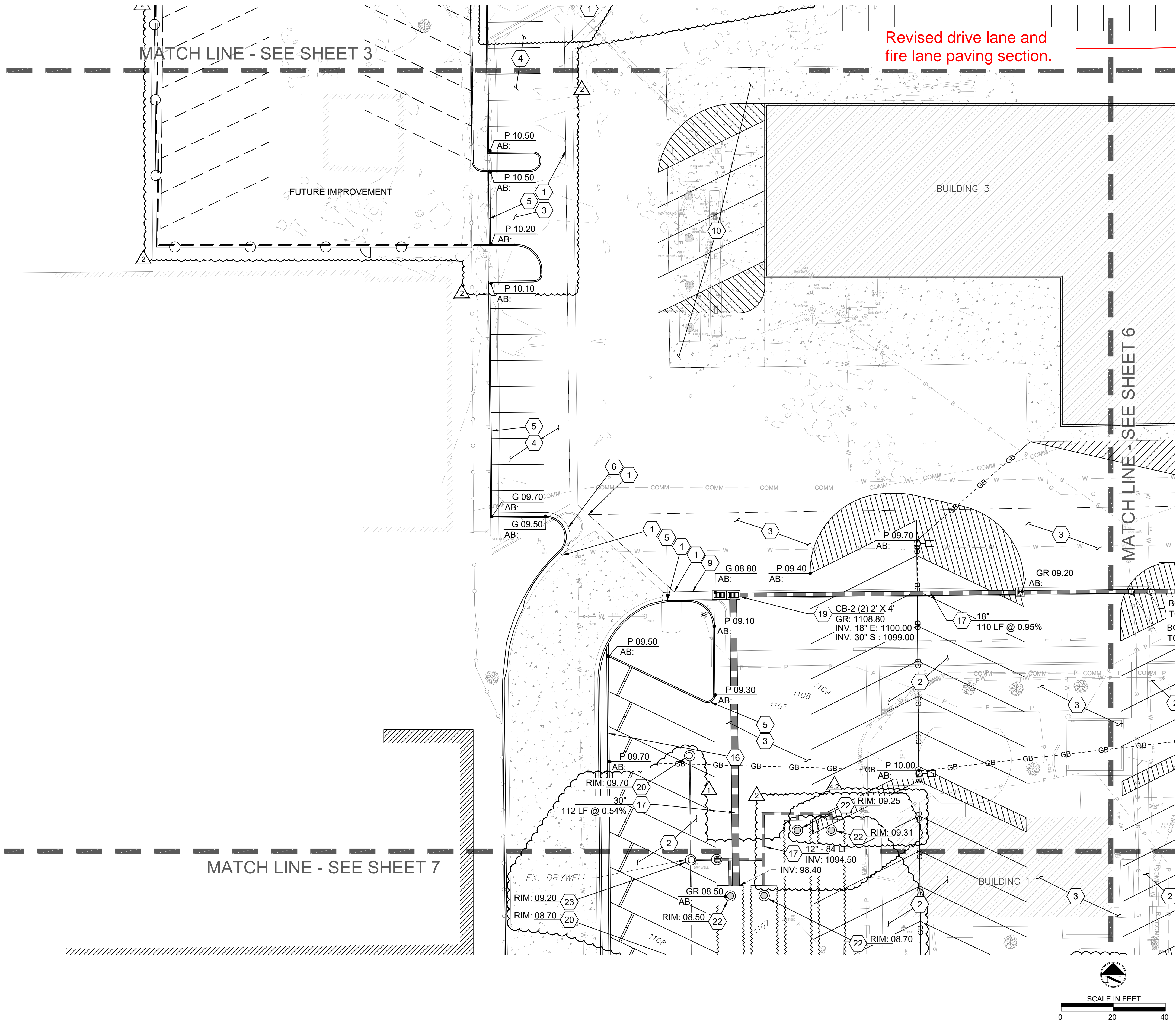
SHEET:

GD 04

SEQUENCE #:

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DISTRICT SUPPORT FACILITY - MAIN BUILDING

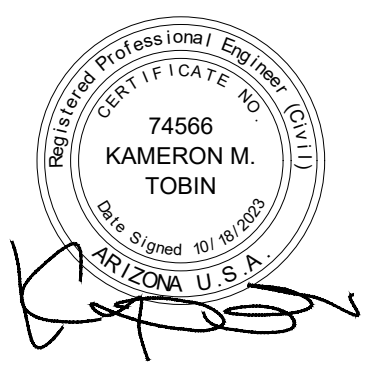
PHOENIX UNION HIGH SCHOOL DISTRICT
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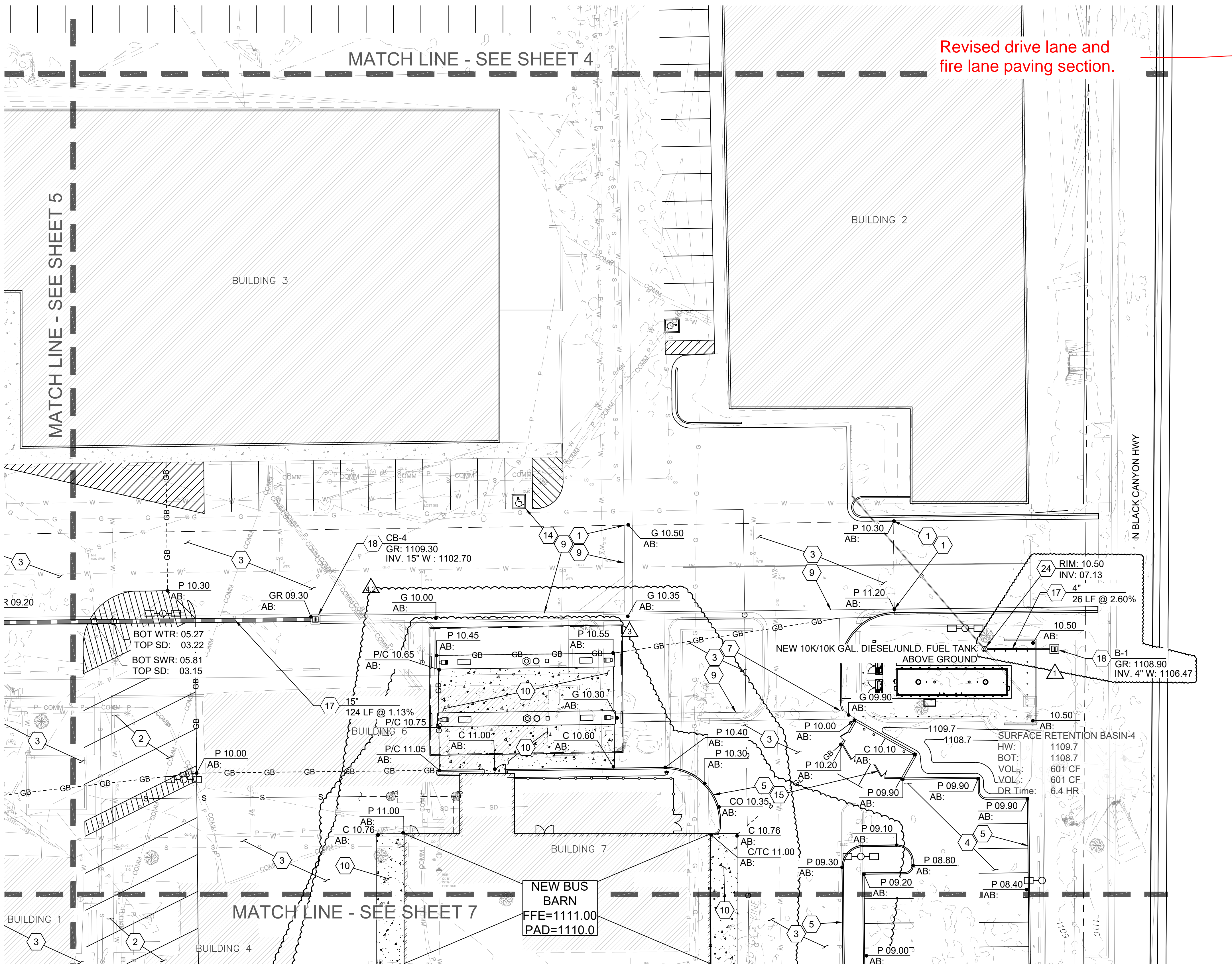
SHEET:

GD 05

SEQUENCE #:

SP+ARCHITECTS LLP
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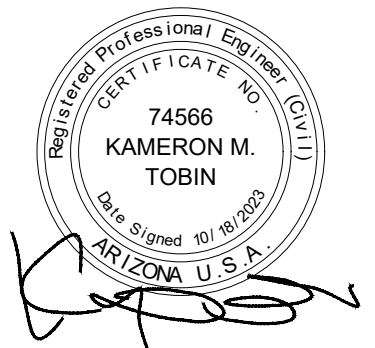
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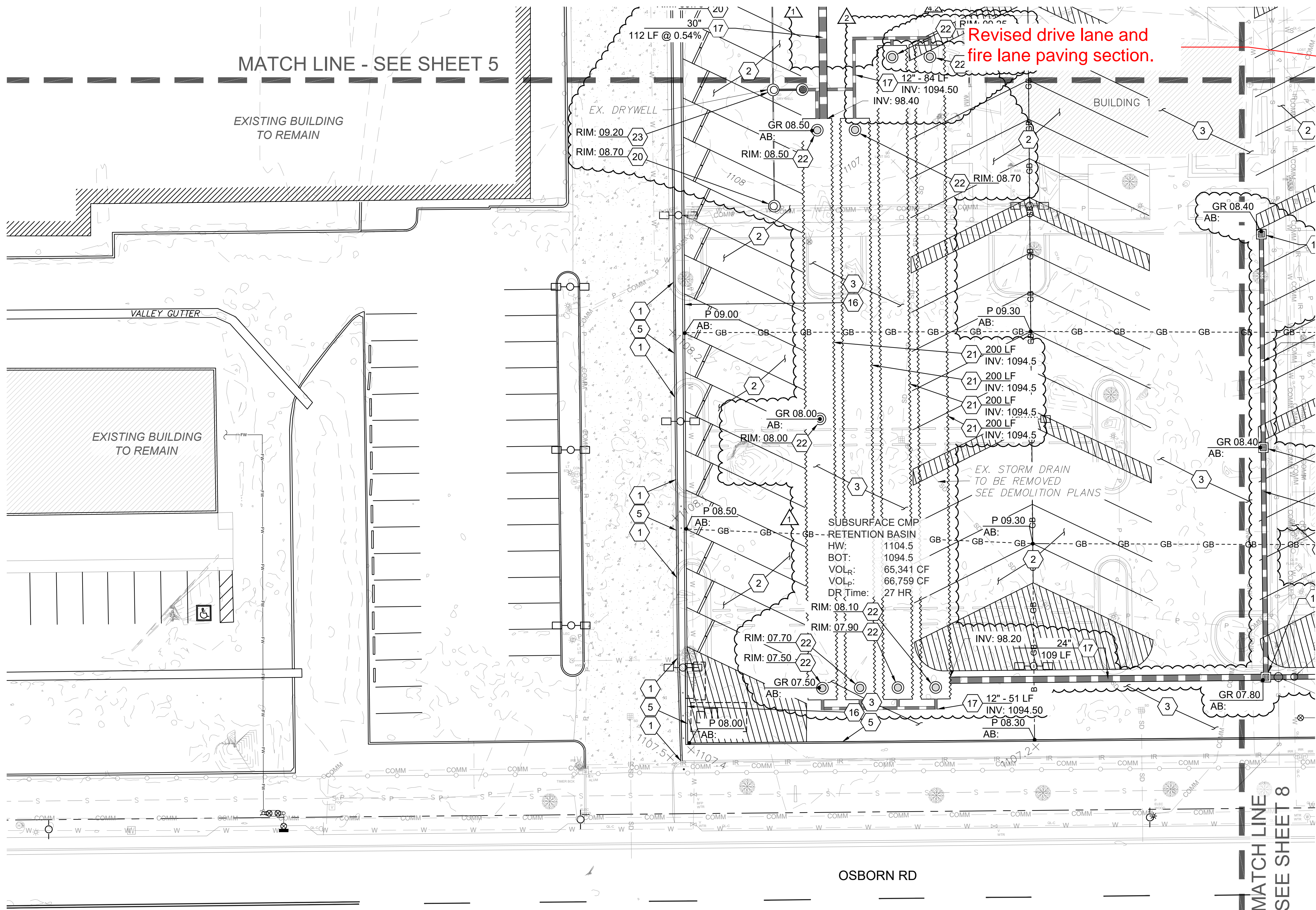
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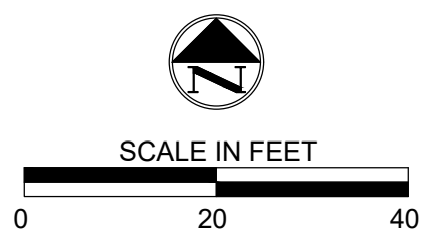
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20. INSTALL TORRENT RESOURCES MAXWELL (C) PLUS DRYWELL AND INTERCEPTOR PER DETAIL 5, SHEET 2. DRYWELL MAY BE OPTIONAL IF FIELD PERCOLATION TEST OF CONSTRUCTED DRYWELL(S) REVEAL SOILS W/ PERMEABILITY RATES HIGHER THAN 0.1 CFS. DESIGN ENGINEER SHALL BE CONSULTED TO CALCULATE BASIN DRAIN TIME AND APPROVE ELIMINATION OF DRYWELL.
21. INSTALL 10' DIAMETER CORRUGATED METAL PIPE (CMP) 14 GAGE WITH 1" x 5" CORRUGATIONS PER DETAILS 2.1, 2.2, 2.3 & 2.4, SHEET 2, AND M.A.G. STD. SPECIFICATION 601 & 621. ALL CMP JOINTS SHALL BE WATERTIGHT.
22. INSTALL 48" CMP ACCESS WITH 30" GRATE PER DETAIL 3, SHEET 2. PROVIDE CONCRETE COLLAR PER M.A.G. STD. DTL. 422.
23. INSTALL 48" MANHOLE OVER EXISTING DRYWELL PER M.A.G. STD. DETAIL 522.
24. INSTALL NYLOPLAST JUNCTION (12" MINIMUM) PER MANUFACTURER'S SPECIFICATIONS WITH SOLID, WATERTIGHT LID.
25. **INSTALL TURN BLOCK WALL OPENING PER DETAIL 4, SHEET 2.**
26. INSTALL RIPRAP SPILLWAY PER DETAIL 5, SHEET 3.
27. INSTALL TRENCH DRAIN PER SITE DETAILS LOCATED ON ARCHITECTURAL SHEET SP111.
28. INSTALL PEDESTRIAN RAMP PER M.A.G. STD. DTL. 238-3.
29. INSTALL SAFETY RAIL PER M.A.G. DETAIL 145. SEE ARCHITECTURAL DRAWINGS FOR ADDITIONAL DETAILS AND ELEVATIONS.



DISTRICT SUPPORT FACILITY - MAIN BUILDING

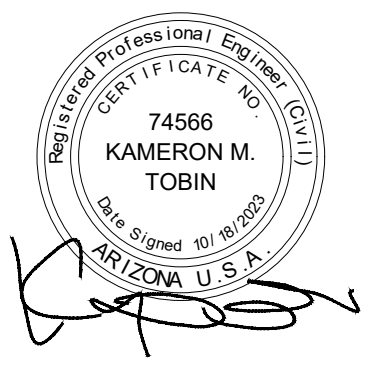
PHOENIX UNION HIGH SCHOOL DISTRICT
2526 W. OSBORN ROAD
PHOENIX, AZ 85017

G & D PLAN

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REVISIONS		
REV#	DATE	DESCRIPTION
1	03/26/2021	V.E. COORD.
2	03/22/2022	ADD N.W. PARKING
3	02/07/2023	RAISE GARAGE FFE
4.2	10/18/2023	REVISE GRADING

REVIEWED BY: KMT
DRAWN BY:



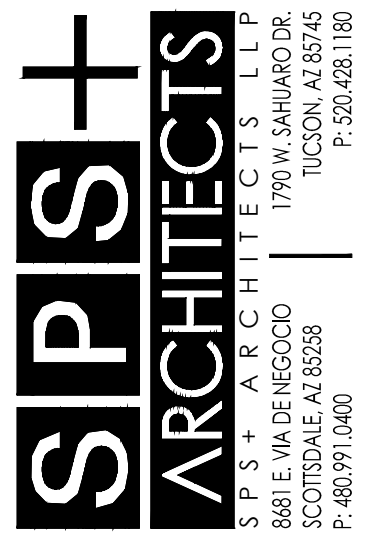
ORIGINAL ISSUE
DATE: 07.27.2022

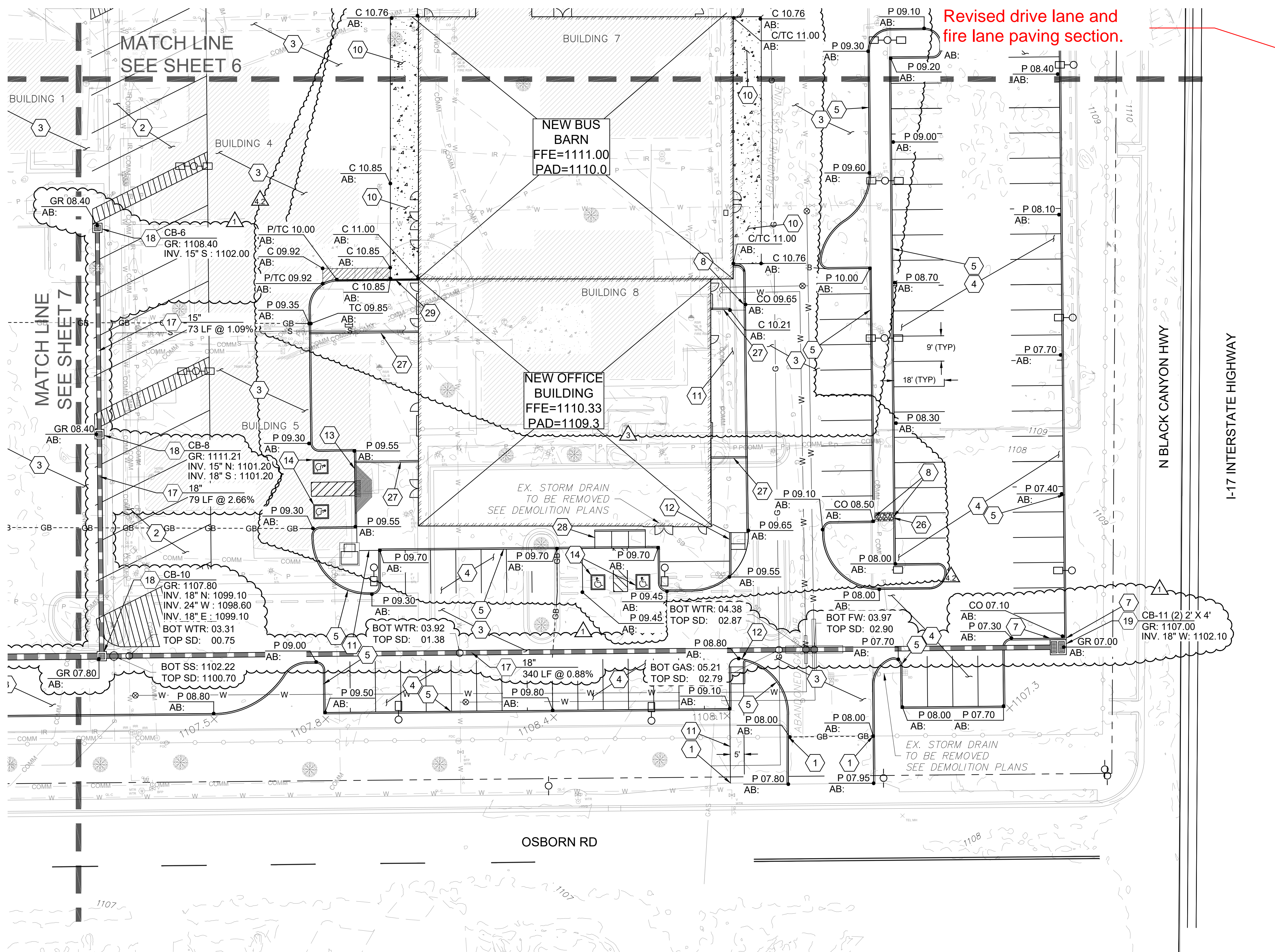
JOB No: 2025

SHEET:

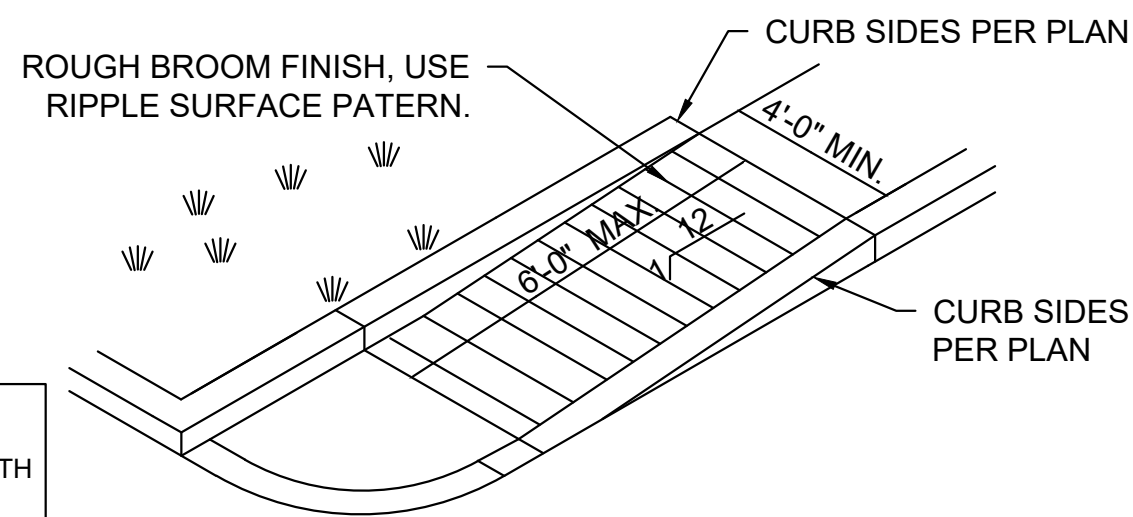
GD 07

SEQUENCE #:





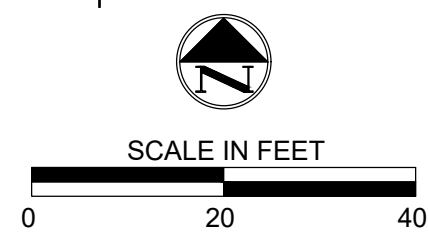
- (X) PAVING, GRADING & DRAINAGE NOTES
1. MATCH EXISTING.
 2. INSTALL 3" ACCP OVER 8" ABC PER M.A.G. SPEC. 321. SEE DETAIL 1, SHEET 2.
 3. **INSTALL 4" ACCP OVER 9" ABC PER M.A.G. SPEC. 321. SEE DETAIL 1, SHEET 2.**
 4. INSTALL 2" ACCP OVER 6" ABC PER M.A.G. SPEC. 321. SEE DETAIL 1, SHEET 2.
 5. INSTALL 6" SINGLE CURB PER M.A.G. STD. DETAIL 222, TYPE 'A'.
 6. INSTALL VERTICAL CURB & GUTTER TYPE 'A' PER M.A.G. STD. DETAIL 220-1.
 7. INSTALL CURB TERMINATION PER M.A.G. STD. DETAIL 222.
 8. INSTALL DEPRESSED CURB OPENING PER DETAIL 5, SHEET 3.
 9. INSTALL 3" WIDE VALLEY GUTTER PER M.A.G. STD. DETAIL 222.
 10. INSTALL 8" CLASS "A" CONCRETE PER M.A.G. SPEC. 725.
 11. INSTALL CONCRETE SIDEWALK PER C.O.P. STD. DETAIL P1230.
 12. **INSTALL PEDESTRIAN RAMP PER DETAIL 6, SHEET 8.**
 13. INSTALL PEDESTRIAN RAMP PER M.A.G. STD. DTL. 238-1.
 14. INSTALL ADA SIGNING & STRIPING PER C.O.P. DETAIL CONTAINED IN ACCESSIBLE PARKING REQUIREMENTS PER CITY OF PHOENIX ZONING ORDINANCE SEC. 702.G, MARCH 2013.
 15. INSTALL REFUSE ENCLOSURE PER C.O.P. PUBLIC WORKS DEPARTMENT SOLID WASTE ACCESS AND CONTAINMENT STANDARD DETAILS. SEE ARCHITECTURAL PLAN SHEET SP112. PAINT TO MATCH LOCAL THEME.
 16. INSTALL BLOCK PERIMETER WALL. SEE STRUCTURAL PLAN SHEET S010.
 17. INSTALL HIGH DENSITY POLYETHYLENE (HDPE) STORM DRAIN PIPE. FOR BEDDING SEE M.A.G. STD. SPECIFICATION 601, SIZE, LENGTH, AND SLOPE PER PLAN.
 18. INSTALL TYPE "G" CATCH BASIN PER M.A.G. STD. DTL. 537 W/ SINGLE GRATE (2'X2' - INSIDE BOX DIMENSIONS).
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NOTE:
- ALL HANDICAP RAMPS ARE TO BE CONSTRUCTED IN ACCORDANCE WITH ADA REQUIREMENTS.
- HANDRAILS ARE TO BE INSTALLED AS REQUIRED BY ADA.

HANDICAP RAMP DETAIL TYPE 1
N.T.S.

6



DISTRICT SUPPORT FACILITY - MAIN BUILDING

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REVIEWED BY: KMT
DRAWN BY:



ORIGINAL ISSUE
DATE: 07.29.2022

JOB No: 2025

SHEET:

GD 08

SEQUENCE #: