

LEGEND

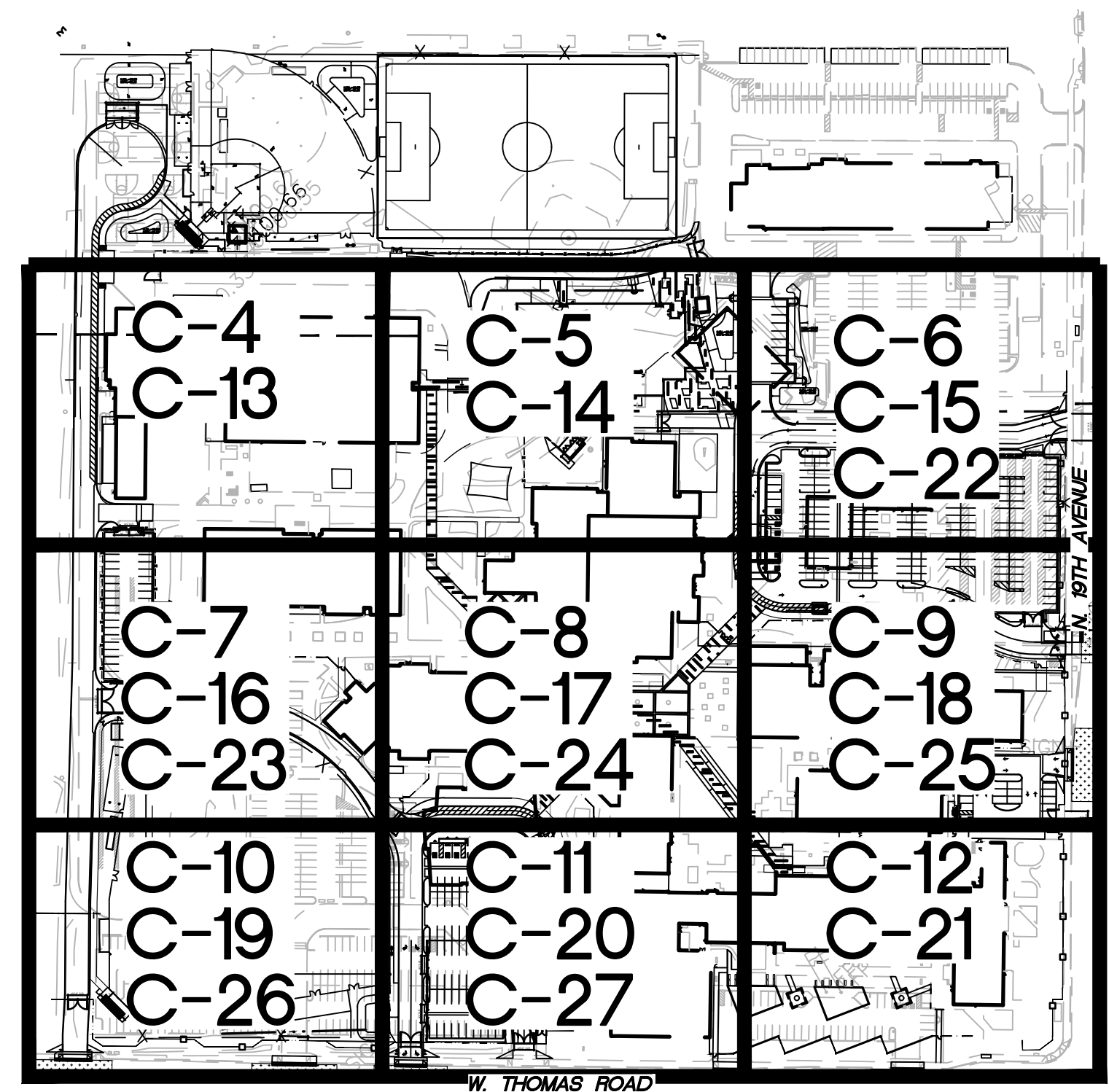
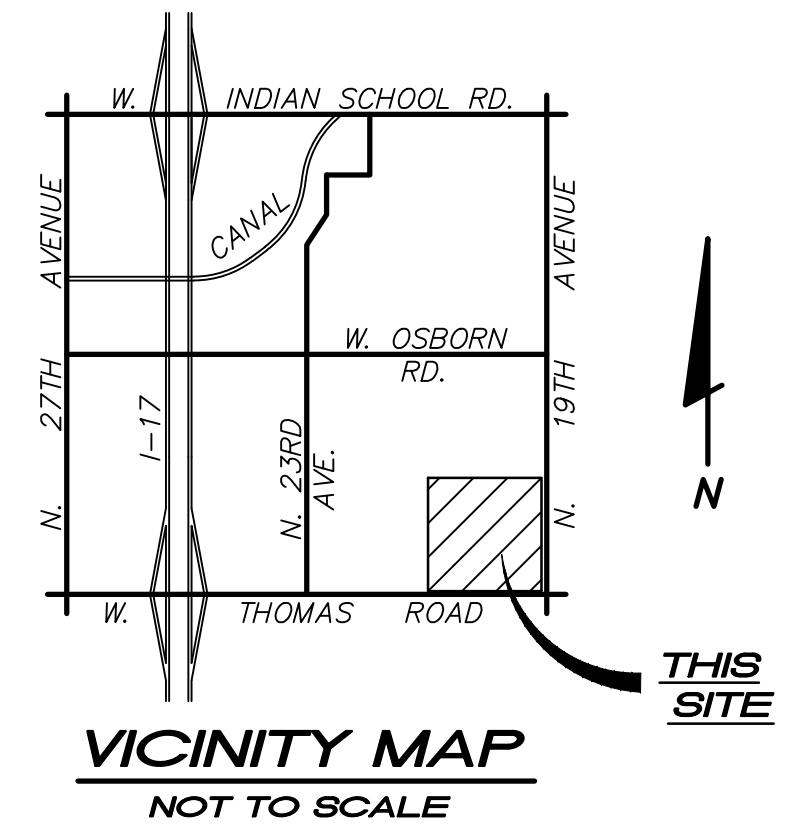
- *BC 1098.04 EXISTING BACK OF CURB ELEVATION
- *BRC 1100.98 EXISTING BACK OF ROLL CURB ELEVATION
- *DC 1099.36 EXISTING DECOMPOSED GRANITE ELEVATION
- *BRK 1100.54 EXISTING BRICK ELEVATION
- *C 1098.04 EXISTING CONCRETE ELEVATION
- *EP 1097.82 EXISTING EDGE OF PAVEMENT ELEVATION
- *FC 1098.00 EXISTING FACE OF CURB ELEVATION
- *FF 1100.22 EXISTING FINISH FLOOR ELEVATION
- *FL 1099.03 EXISTING FLOW LINE ELEVATION
- *G 1098.76 EXISTING GUTTER ELEVATION
- *LC 1100.46 EXISTING LANDSCAPE CURB ELEVATION
- *NG 1097.46 EXISTING NATURAL GROUND ELEVATION
- *P 1098.85 EXISTING PAVEMENT ELEVATION
- *SB 1099.76 EXISTING SPEEDBUMP ELEVATION
- *STR 1100.54 EXISTING STAIR ELEVATION
- *SW 1100.50 EXISTING SIDEWALK ELEVATION
- *TB 1099.06 EXISTING TOP OF BERM ELEVATION
- *TD 1097.65 EXISTING TRENCH DRAIN ELEVATION
- *TS 1097.97 EXISTING TOE OF SLOPE ELEVATION
- *TW 1099.27 EXISTING TOP OF WALL ELEVATION
- *WH 1097.50 EXISTING WEEP HOLE ELEVATION
- *TC 1100.16 EXISTING TOP OF CURB ELEVATION
- *COMBX EXISTING COMMUNICATION BOX
- CMH RIM=1097.89 EXISTING COMMUNICATION MANHOLE (WITH RIM ELEVATION)
 - CR EXISTING COMMUNICATION RISER
 - CT EXISTING CELL TOWER
- EMH RIM=1098.62 EXISTING ELECTRICAL MANHOLE (WITH RIM ELEVATION)
 - EB EXISTING ELECTRICAL BOX
 - ER EXISTING ELECTRICAL RISER
 - LP EXISTING LIGHTPOLE
 - EBB EXISTING ELECTRICAL BREAKER BOX
 - ECAB EXISTING ELECTRICAL CABINET
 - ET EXISTING ELECTRICAL TRANSFORMER
 - ICV EXISTING IRRIGATION CONTROL VALVE
 - IDB EXISTING IRRIGATION DRIP BOX
- AD RIM=1097.35 EXISTING ARE DRAIN (WITH RIM ELEVATION)
- BB RIM=1096.33 EXISTING BUBBLER BOX (WITH RIM ELEVATION)
- DW RIM=1096.01 EXISTING DRYWELL (WITH RIM ELEVATION)
- CB RIM=1095.96 EXISTING CATCH BASIN (WITH RIM ELEVATION)
 - SDCO EXISTING STORM DRAIN CLEANOUT
- GI RIM=1097.78 EXISTING GREASE INTERCEPTOR (WITH RIM ELEVATION)
- SSMH RIM=1099.43 EXISTING SANITARY SEWER MANHOLE (WITH RIM ELEVATION)
 - SSCO EXISTING SANITARY SEWER CLEANOUT
- WVLT EXISTING WATER VAULT
- WMH RIM=1098.89 EXISTING WATER MANHOLE (WITH RIM ELEVATION)
 - WR EXISTING WATER RISER
 - WV EXISTING WATER VALVE
 - DCV EXISTING DOUBLE CHECK VALVE
 - BFP EXISTING BACKFLOW PREVENTOR
 - FH EXISTING FIRE HYDRANT
 - FDC EXISTING FIRE DEPARTMENT CONNECTION
 - CLM EXISTING COLUMN
 - PB EXISTING PIPE BOLLARD
 - SIGN EXISTING SIGN
 - CVLT EXISTING COMMUNICATION VAULT
- E(BS) EXISTING ELECTRICAL LINE (BLUESTAKE)
- E EXISTING ELECTRICAL LINE (MAP DRAWN)
- COMM EXISTING COMMUNICATION LINE (MAP DRAWN)
- G EXISTING GAS LINE (MAP DRAWN)
- IRR EXISTING IRRIGATION LINE (MAP DRAWN)
- W EXISTING WATER LINE (MAP DRAWN)
- SD EXISTING STORM DRAIN LINE (MAP DRAWN)
- S EXISTING SEWER LINE (MAP DRAWN)

PHASE 2 GRADING AND DRAINAGE PLANS
FOR
METRO TECH HIGH SCHOOL

SITE ADDRESS: 1900 W. THOMAS ROAD
PHOENIX, AZ 85015

FOR
PHOENIX UNION HIGH SCHOOL DISTRICT

4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100



SHEET INDEX MAP
NOT TO SCALE

ENGINEER:

BOWMAN CONSULTING
1600 N. DESERT DR., SUITE 210.
TEMPE, AZ 85288
PHONE: (480) 629-8830
CONTACT: DOUG OSBORN, P.E.

OWNER/DEVELOPER:

PHOENIX UNION HIGH SCHOOL DISTRICT
4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100

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- C-1 COVER SHEET
- C-2 DETAIL SHEET
- C-3 DETAIL SHEET
- C-4 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN
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- C-6 PARTIAL TOPOGRAPHIC SURVEY AND DEMOLITION PLAN
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BENCHMARK:

FOUND CITY OF PHOENIX BENCHMARK #524 BEING A CITY OF PHOENIX BRASS CAP IN HANDHOLE LOCATED IN THE INTERSECTION OF WEST OSBORN ROAD AND NORTH 19TH AVENUE.

ELEVATION = 1104.947 (CITY OF PHOENIX DATUM) (NGVD29)

DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR:

1. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
2. THE DESIGN CIVIL 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. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
5. THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE 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. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
6. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
7. ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
8. THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
9. ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

AS-BUILT CERTIFICATION:

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

REGISTERED ENGINEER/LAND SURVEYOR _____ DATE _____
REGISTRATION NUMBER _____

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOWN OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS ACCRE WITH THE INFORMATION CONTAINED IN THE UTILITY COMPANY'S RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS WILL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORSEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

ARIZONA PUBLIC SERVICE	APS LOCATED DEPT. CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
CITY OF PHOENIX TRAFFIC SIGNALS	SIGNAL SHOP CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
CITY OF PHOENIX WATER SERVICES DEPT.	HECTOR LEPUR CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
COX COMMUNICATION	ELM LOCATION DISPATCH CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
CENTURY LINK	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
MCI-(VERIZON BUSINESS)	SUPERVISOR ON DUTY CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
PAULLEY CONSTRUCTION, LLC	CELESTE BARRAGAN CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
SALT RIVER PROJECT	SRP BLUE STAKE CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
SOUTHWEST GAS	ELM LOCATING DISPATCH CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
SOUTHWEST GAS HIGH PRESSURE	BORE COORDINATOR CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
WANRACK LLC.	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED
ZAYO GROUP FKA AGL	ZAYO LOCATE DESK CO. REPRESENTATIVE CONTACTED	DATE SUBMITTED

NOTE:

THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE ONLY AND ARE AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF BOWMAN CONSULTING NO REPRODUCTION OR OTHER USE SHALL BE MADE BY ANY PERSON OR FIRM OTHER THAN BOWMAN CONSULTING OR THE CITY OF PHOENIX WITHOUT EXPRESS PERMISSION OF BOWMAN CONSULTING ANY UNAUTHORIZED USE SHALL VOID THE ENGINEER'S SEAL AND SIGNATURE HEREON AND NO PROFESSIONAL RESPONSIBILITY WILL REMAIN.

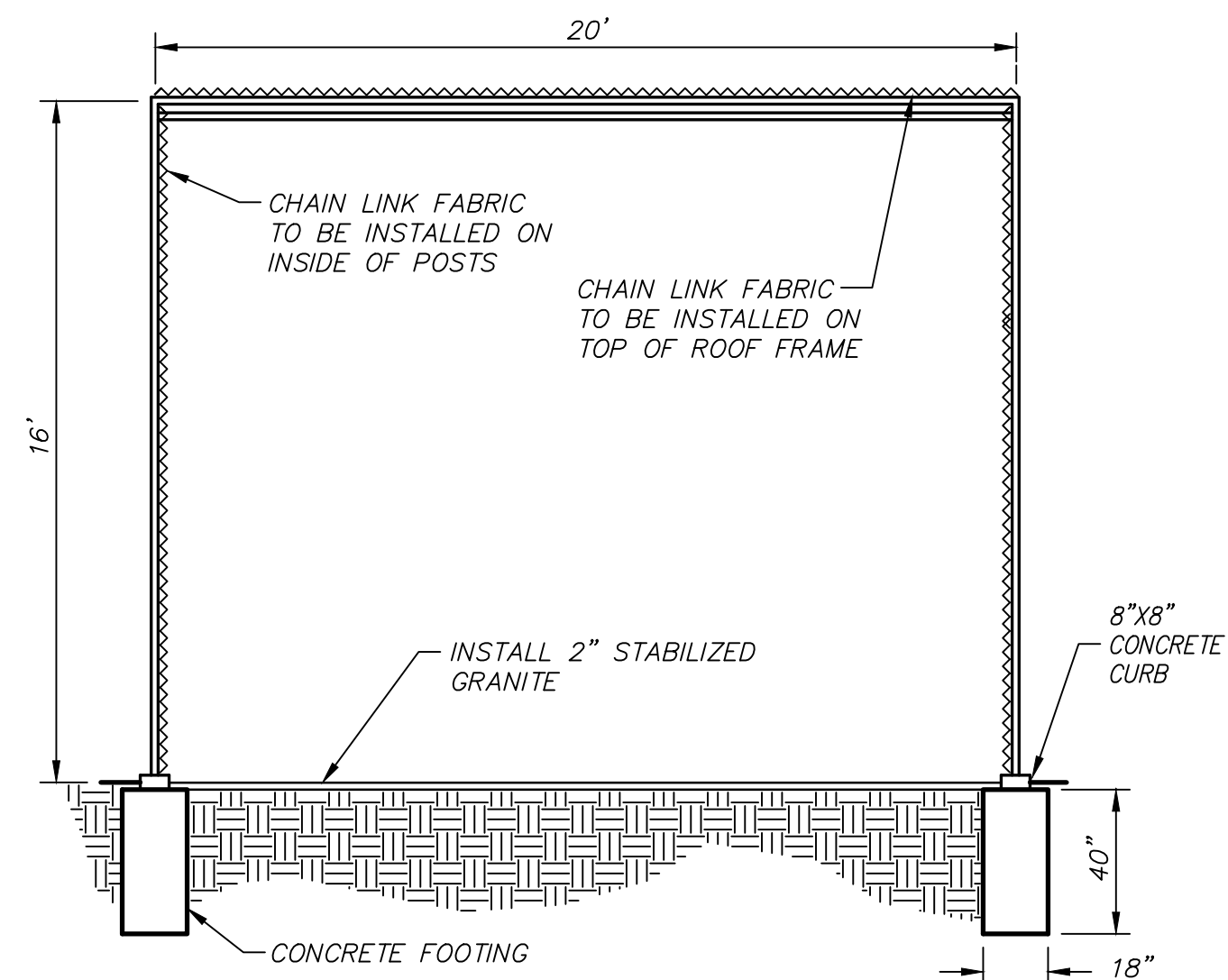


METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

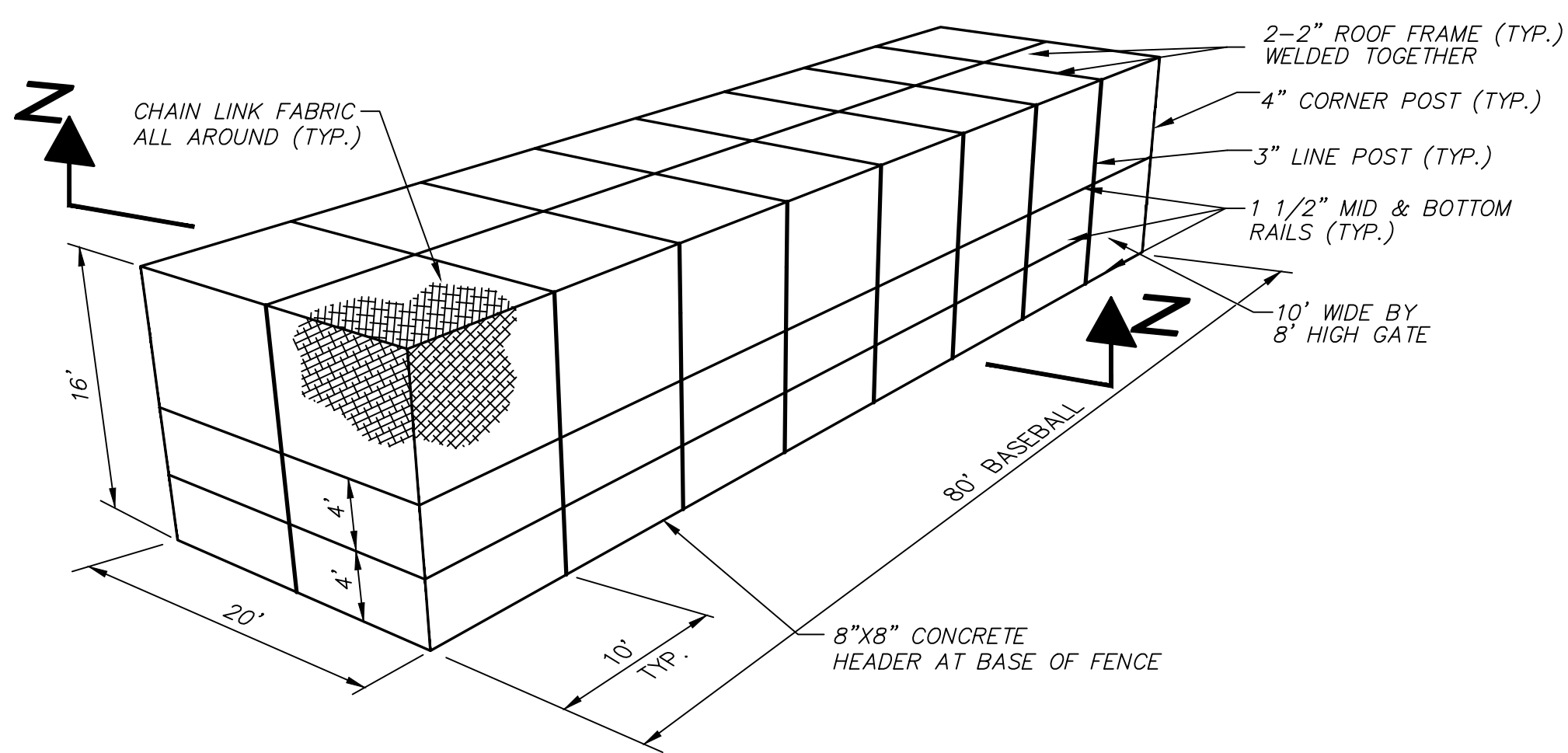
BIDDING SET
05-30-25
Revisions

450336B

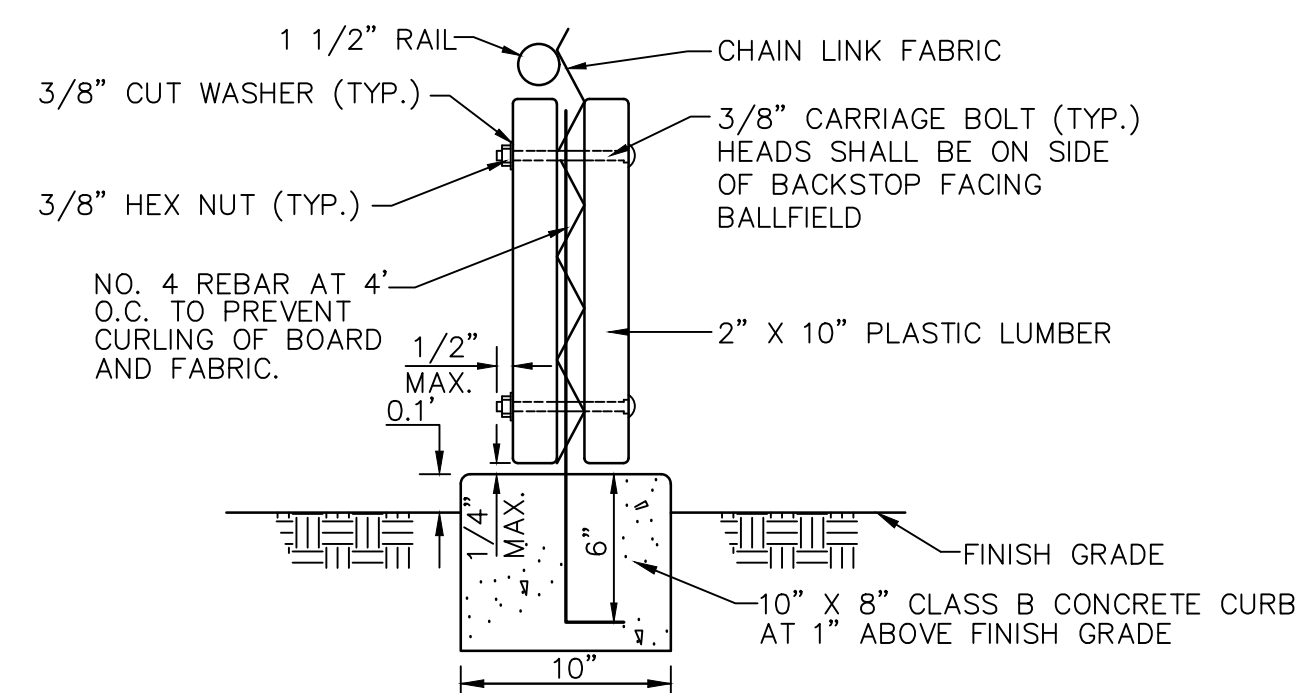




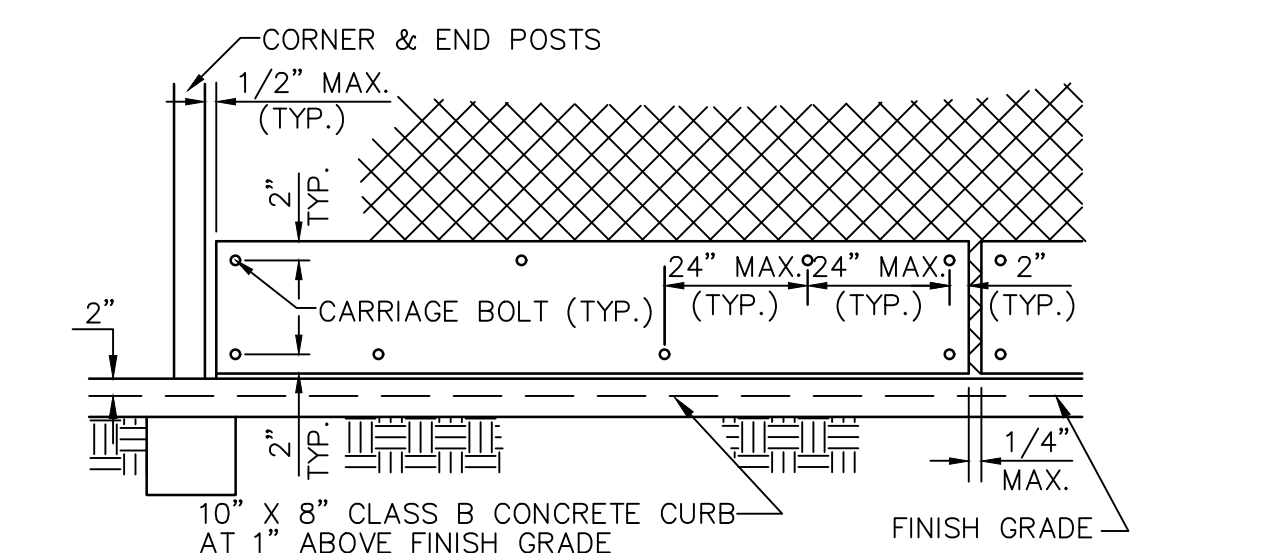
**SECTION Z-Z
BATTING CAGE
NOT TO SCALE**



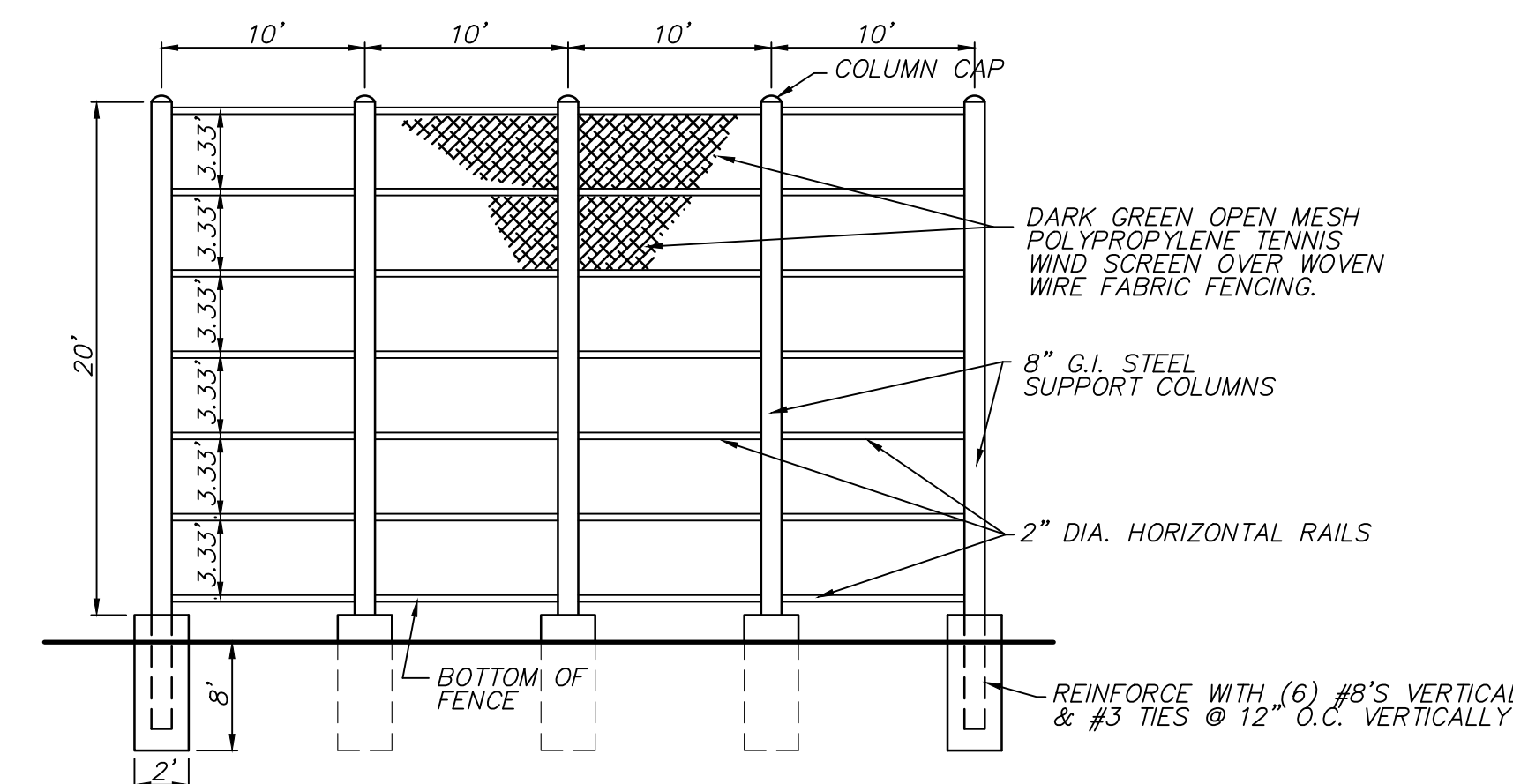
**BATTING CAGE
NOT TO SCALE**



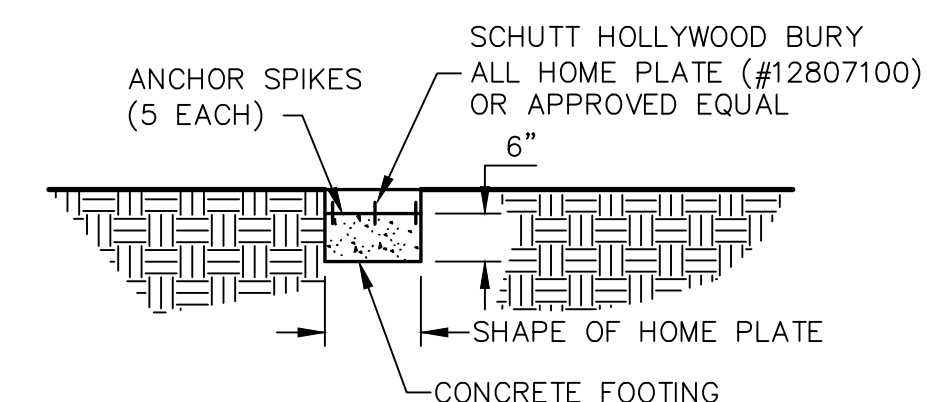
SECTION



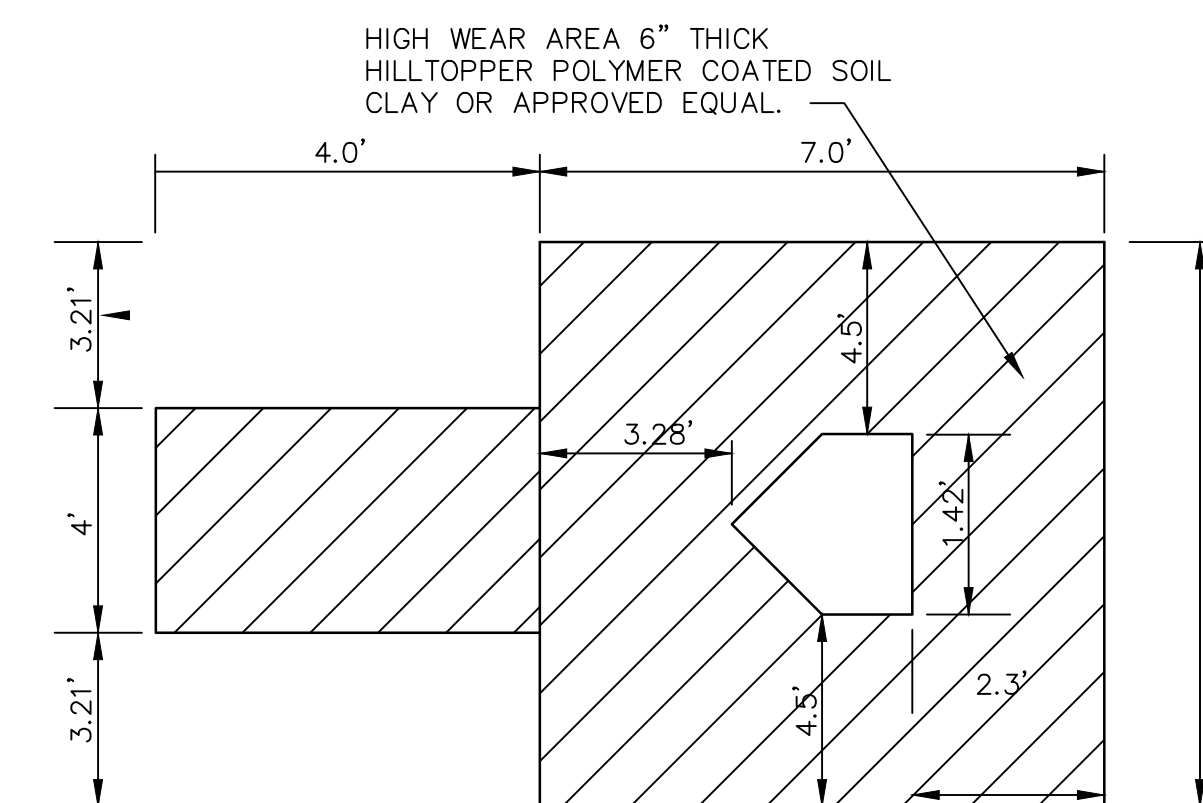
**BACKSTOP PLASTIC BASE BOARDS
NOT TO SCALE**



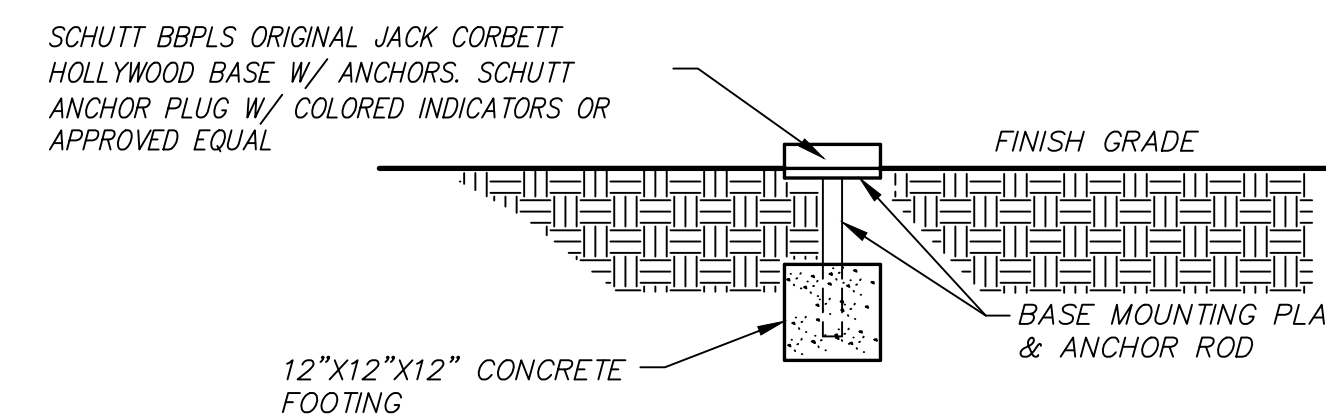
**FENCE BLACKOUT DETAIL
NOT TO SCALE**



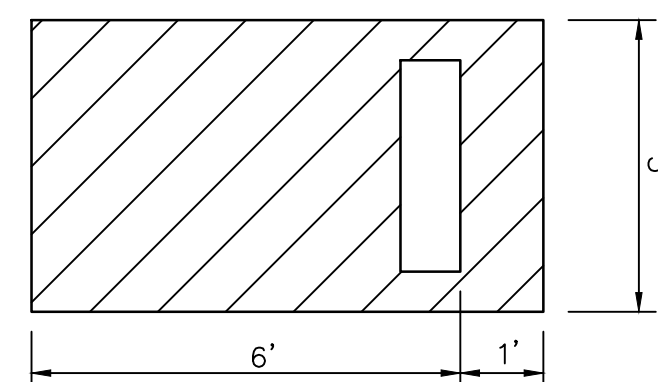
**TYPICAL HOME PLATE
NOT TO SCALE**



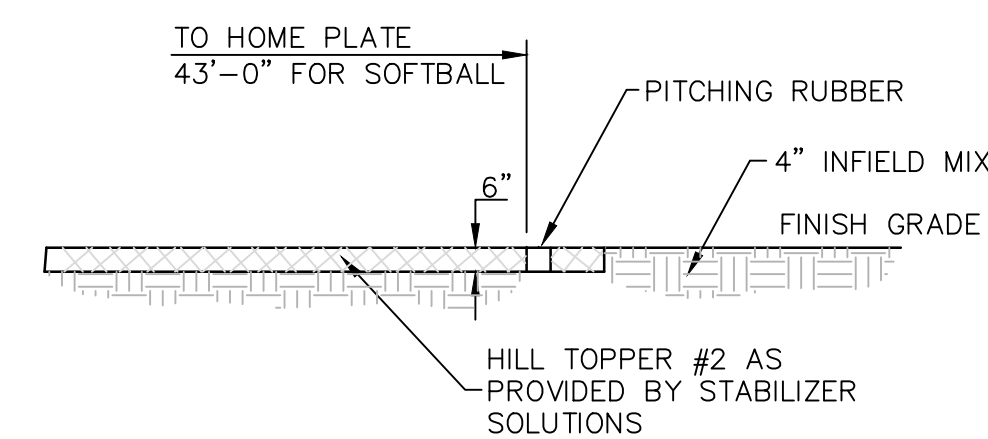
**HOME PLATE PLAN VIEW
NOT TO SCALE**



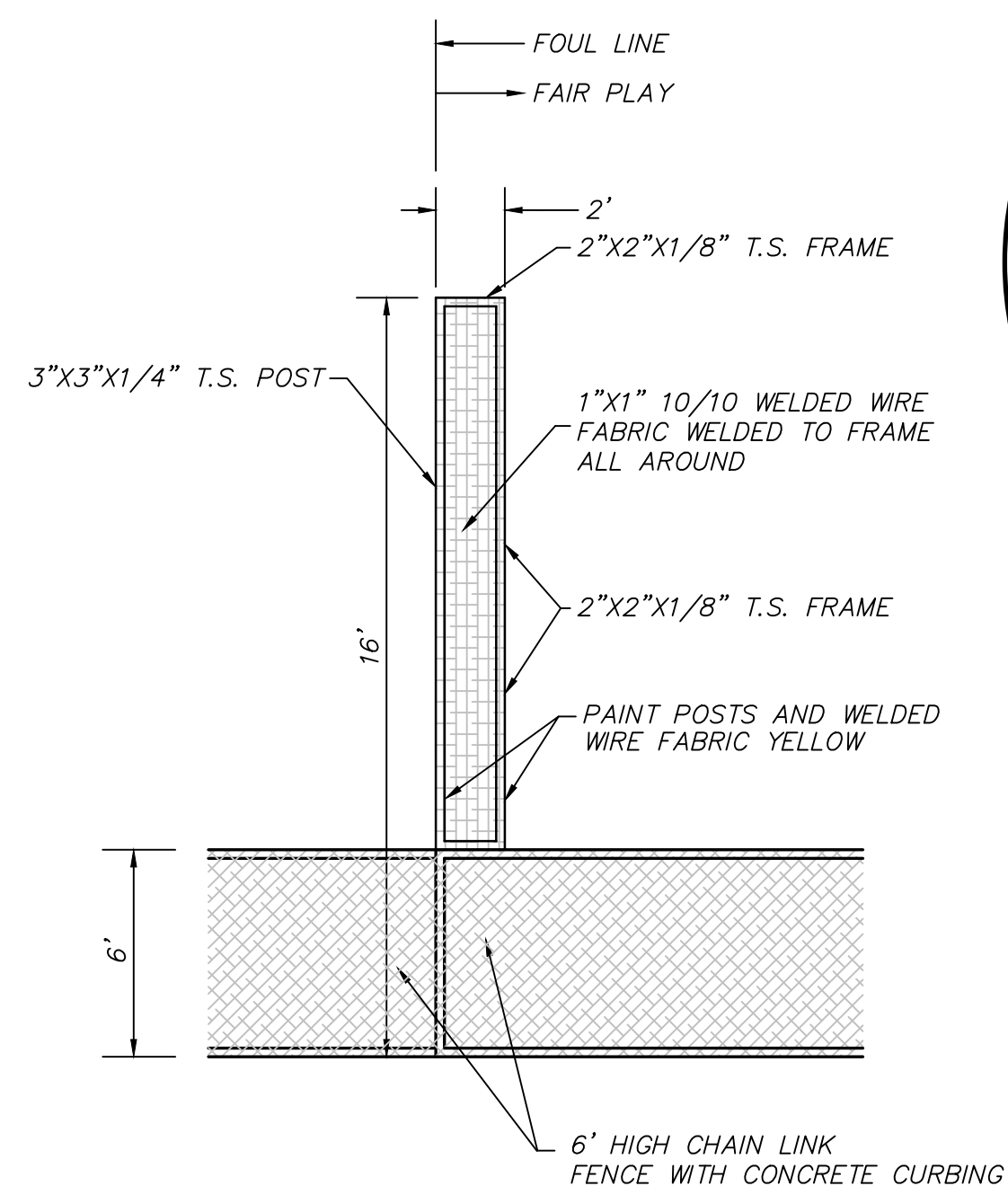
**TYPICAL BASE
NOT TO SCALE**



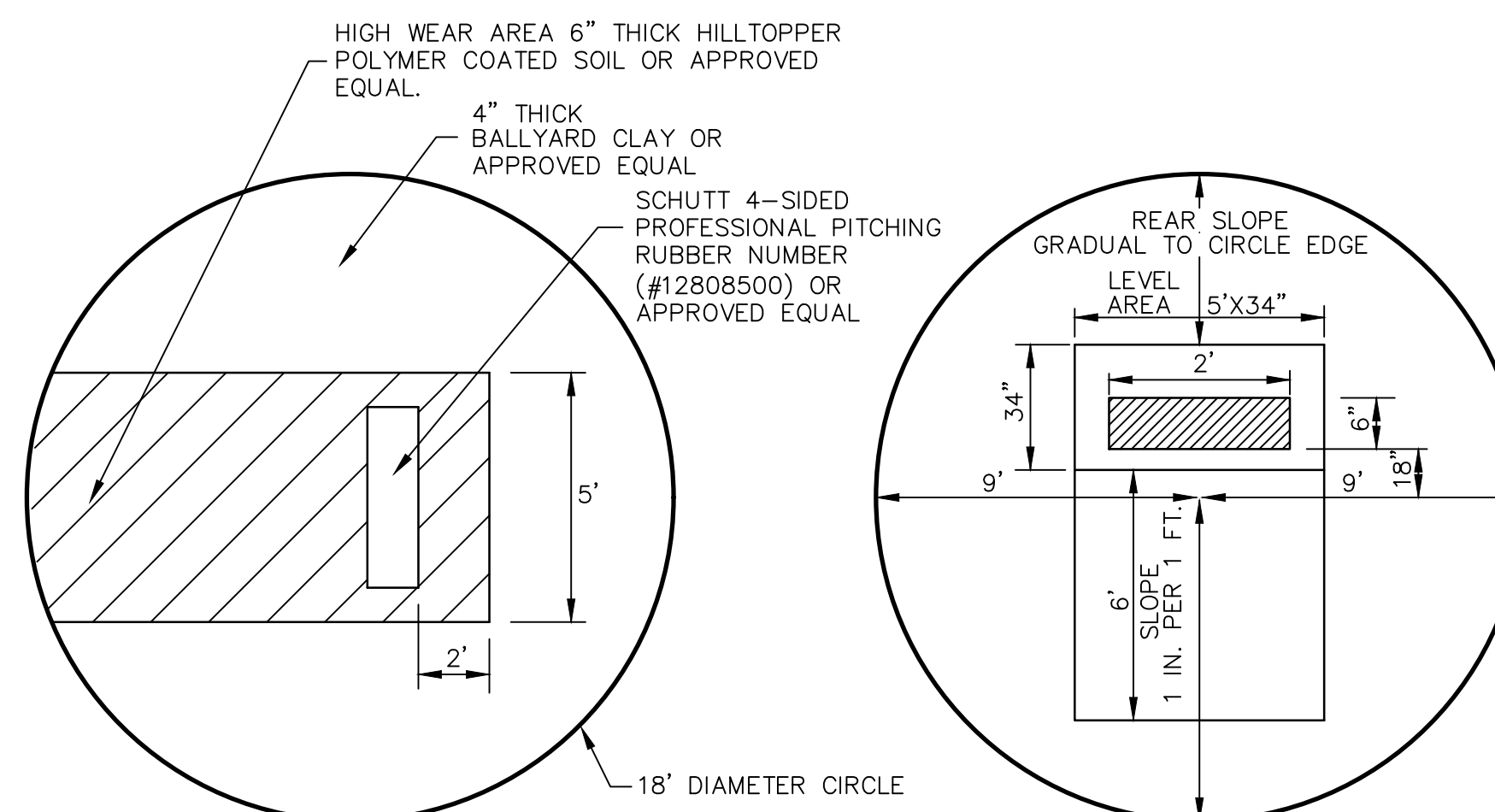
PLAN VIEW



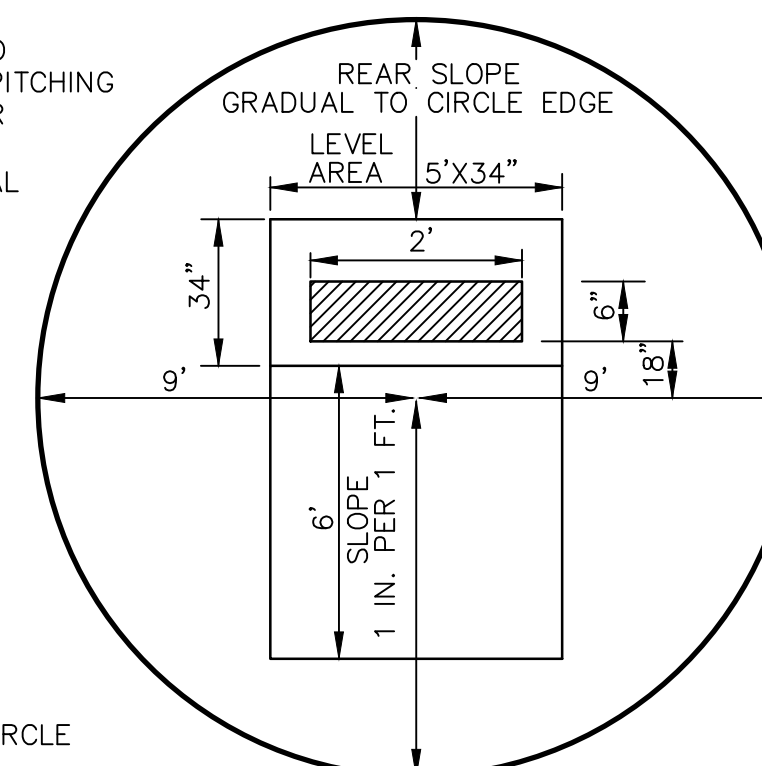
**TYPICAL SOFTBALL
PITCHER MOUND/RUBBER
NOT TO SCALE**



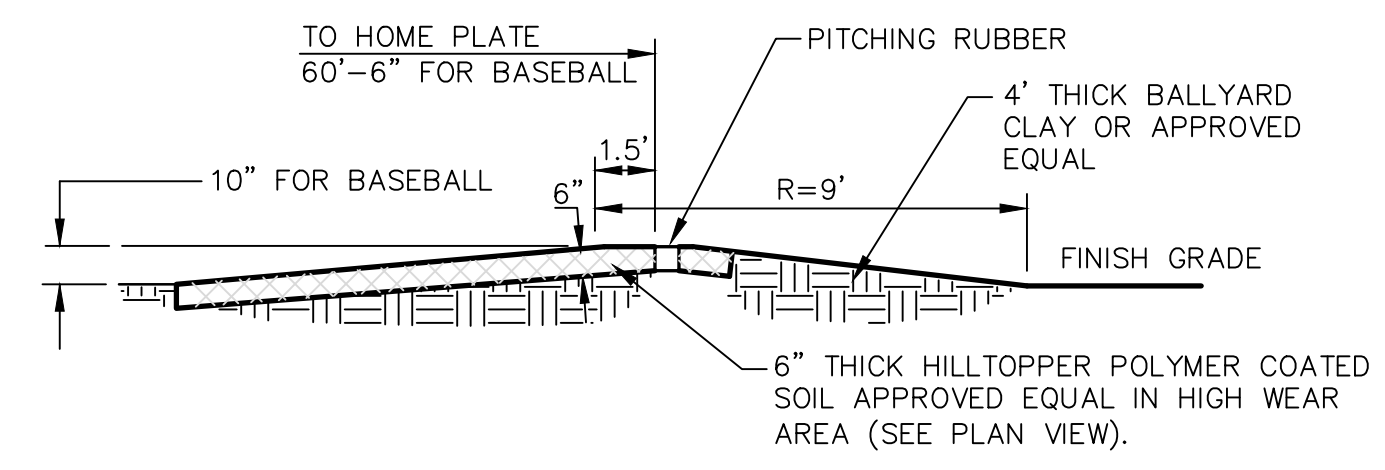
**FOUL POLE DETAIL
NOT TO SCALE**



**PLAN VIEW
NOT TO SCALE**



**PLAN VIEW
NOT TO SCALE**



**BASEBALL PITCHERS PLATE AND MOUND DETAIL
NOT TO SCALE**

*RADIUS POINT OF THE BASEBALL PITCHERS MOUND SHALL BE 1.5' IN FRONT OF THE PITCHERS PLATE



METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
05-30-25
Revisions

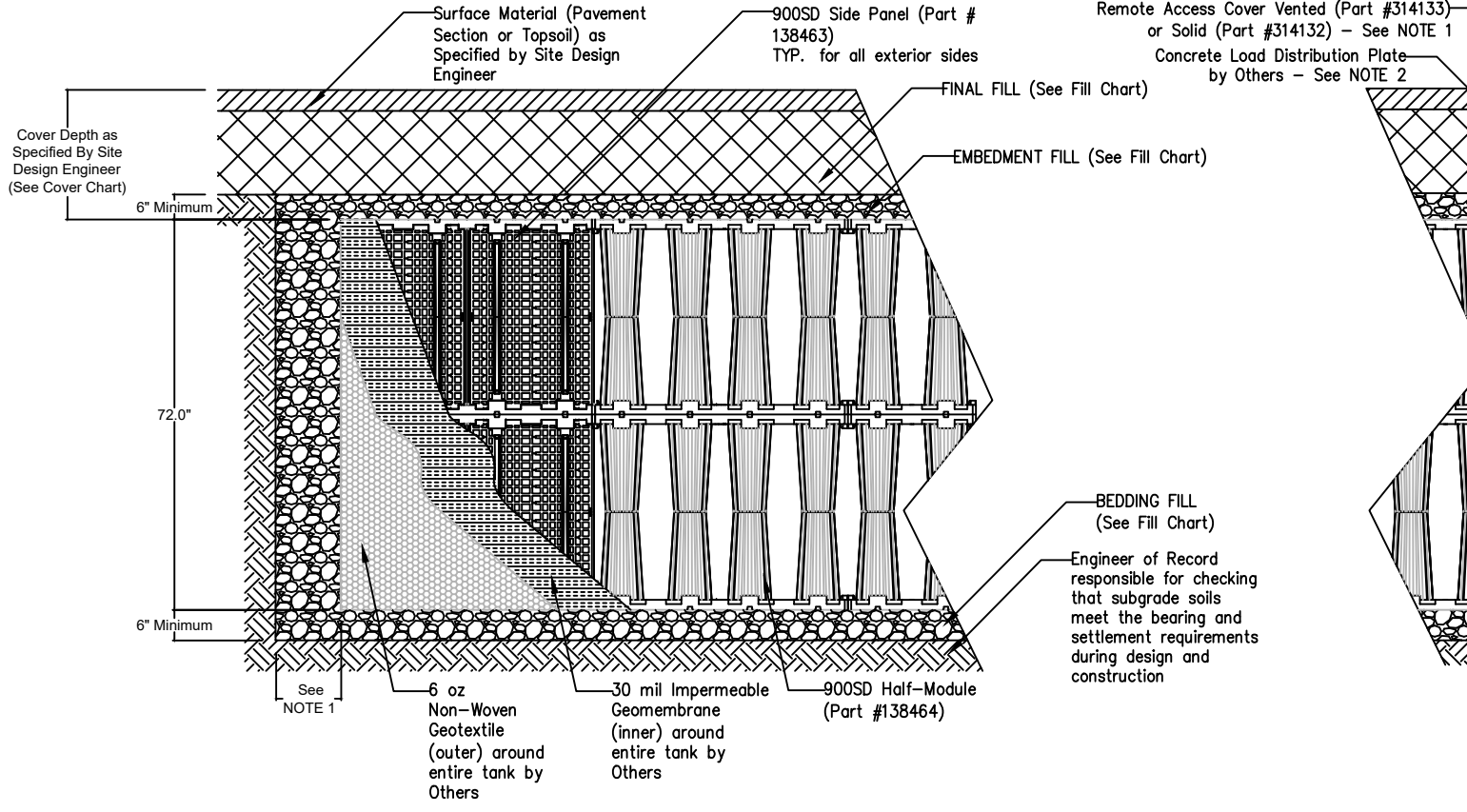
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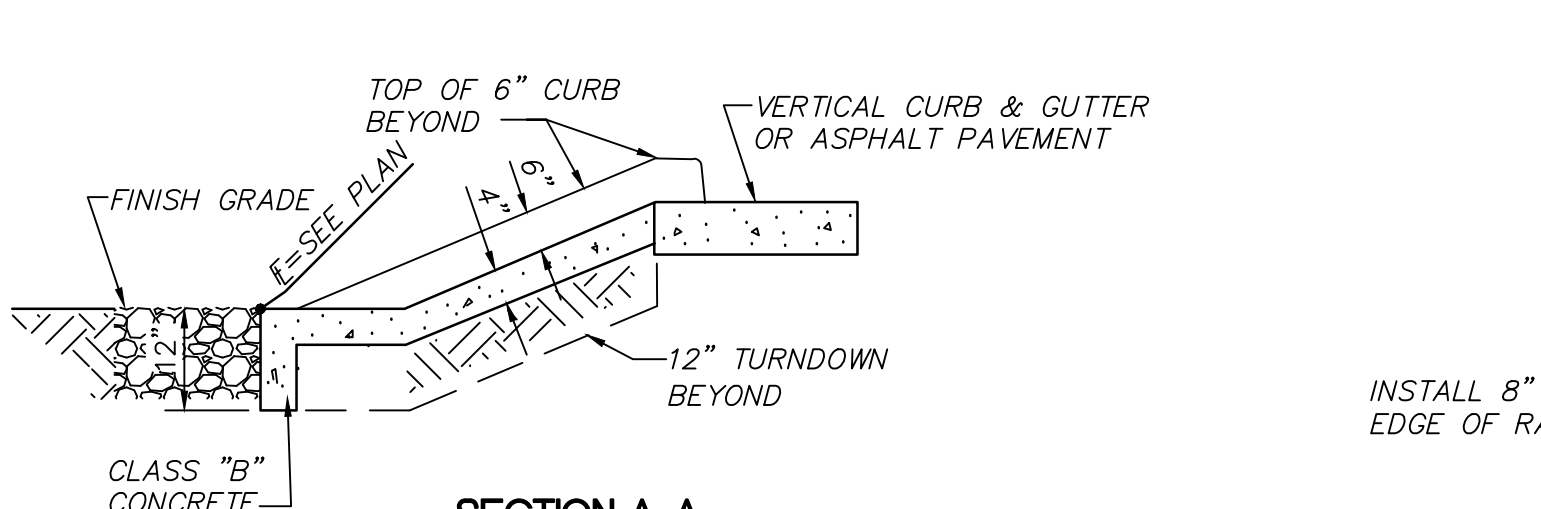
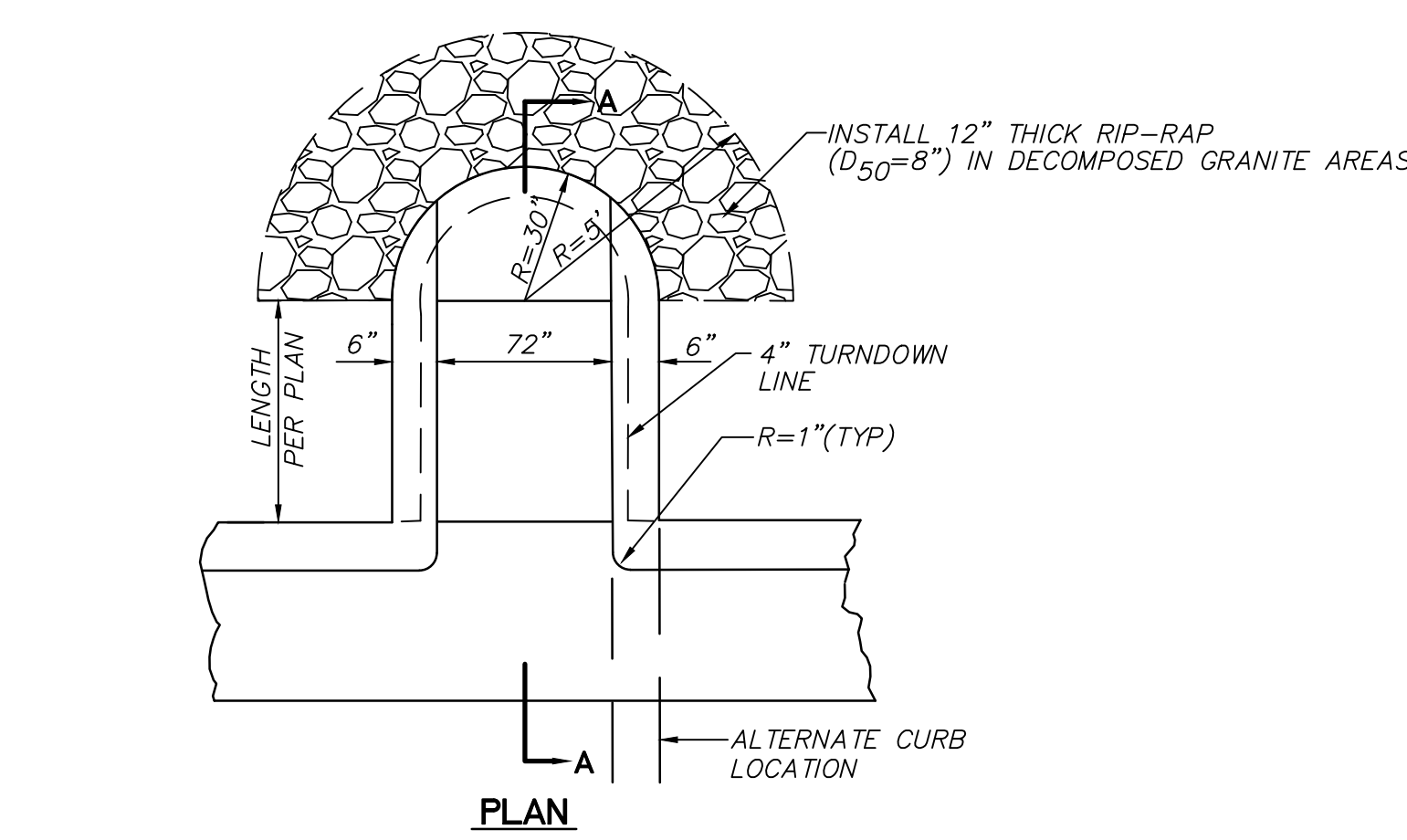
FILL CHART

Material Location	Description	Material Classification	Compaction/Density Requirement (NOTE 3)
FINAL FILL Fill starting from the top of the embedment fill layer. (NOTE 1 and 2)	Suitable Fill Materials as noted in the Project Geotechnical Report and noted on the Site Design Engineer's Plans	See Project Geotechnical Report and Site Design Engineer's Plans	Plate Compact or Static Roll (loose lifts to density fill). Use at least two full passes of the equipment to level the layer. Continue until 24 inches of total fill thickness has been placed above the tank. For AASHTO M146 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended.
EMBEDMENT FILL Fill immediately surrounding the sides and top of tank (NOTE 4)	Sand-Gravel Mixtures or Open-Graded Crushed Aggregate Blends	AASHTO M145 A-1, A-2-4, A-5	Plate Compact or Static Roll (loose lifts to density fill). Use at least two full passes of the equipment to level the layer. For AASHTO M146 soils, a minimum of 95% of the Standard Proctor Maximum Dry Density is recommended.
BEDDING FILL Fill immediately below the tank (NOTE 4)			

NOTE 1: This layer can include pavement subbase.
NOTE 2: If open-graded aggregate is used for embedment fill, this migration from the final to embedment fill layer may be reduced by installing a layer of 6 oz non-woven geotextile fabric at the final and embedment fill interface.
NOTE 3: See Construction Equipment Table for more information for construction equipment limitations.
NOTE 4: Import or native soils may be used if the soils meet the material classification listed. Fill material should be selected based on classification, groundwater conditions, and tank invert elevation.



2 LAYER 900SD DETENTION CROSS SECTION
NOTE 1: The minimum width of sloped backfill is 12" or large enough to accommodate selected compaction equipment, whichever is greater.



CONCRETE SPLASHPAD DETAIL
NOT TO SCALE

CONSTRUCTION EQUIPMENT CHART

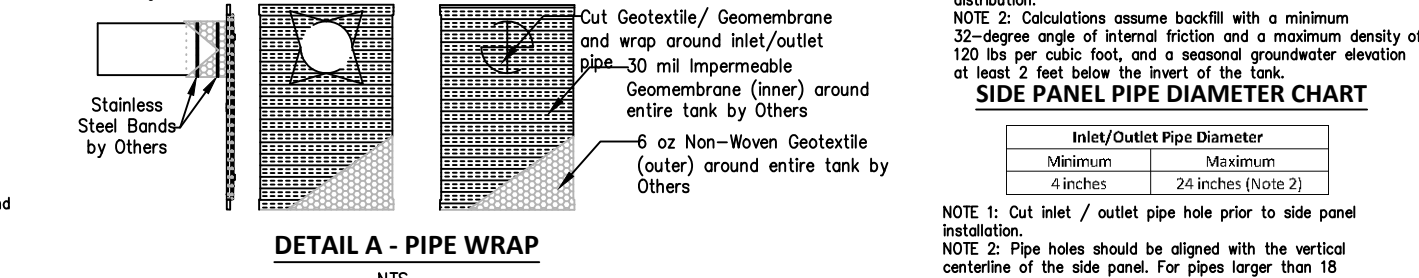
Equipment Make (NOTE 3)	Maximum Gross Vehicle Weight (lbs)	Minimum Fill Depth over Tank (in)
Plate Compactor	1,500	6
Example: Track Loader (NOTE 2)	7,500	6
Roller (Tandem Steel Drum) (NOTE 3)	7,500	14
Low Ground Pressure Tracked Vehicle (NOTE 4)	20,000	14
Roller - Static Drum	12,000	18
Roller - Vibratory Drum	12,000	28

NOTE 1: Vehicles shall make straight runs only across tank footprint.
NOTE 2: Maximum ground pressure = 7 psi
NOTE 3: Maximum size load = 2,200 lb
NOTE 4: Maximum ground pressure = 7 psi
NOTE 5: Contact ADEQ for more information regarding dump truck and port traffic during construction.
NOTE 6: Backfill material may be temporarily unloaded near the excavation. Material shall not be stockpiled near the excavation for longer than 24 hours.

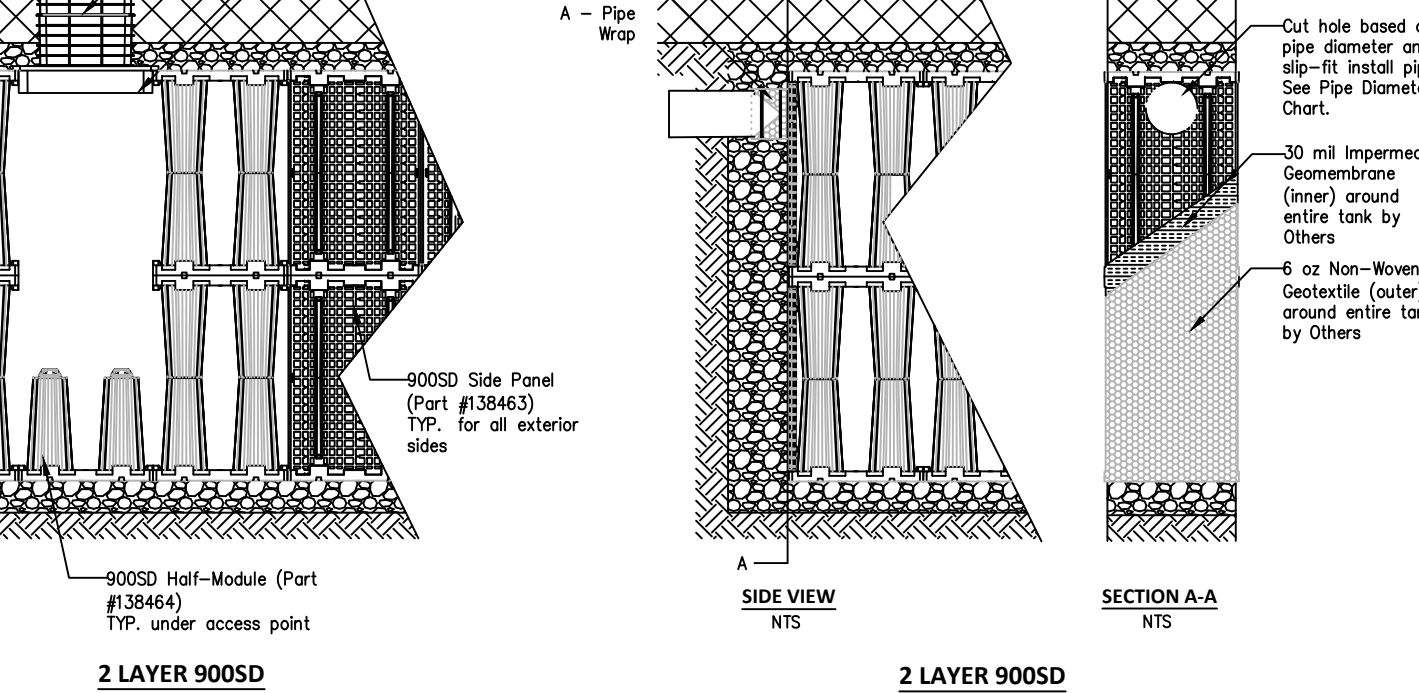
COVER CHART

Live Loading Condition	Cover Thickness (inches)	
	Minimum	Maximum
Non-Trafficked Areas (e.g. Landscaping)	12	72
Passenger Vehicles Parking Lot (e.g. Open Vehicle Storage - (15000 lbs))	18	72
Passenger Vehicle Drive/Exit with one weekly AADT of 100-200 vehicles	24	72
Frequent Access (e.g. 20 Traffic)	36	72

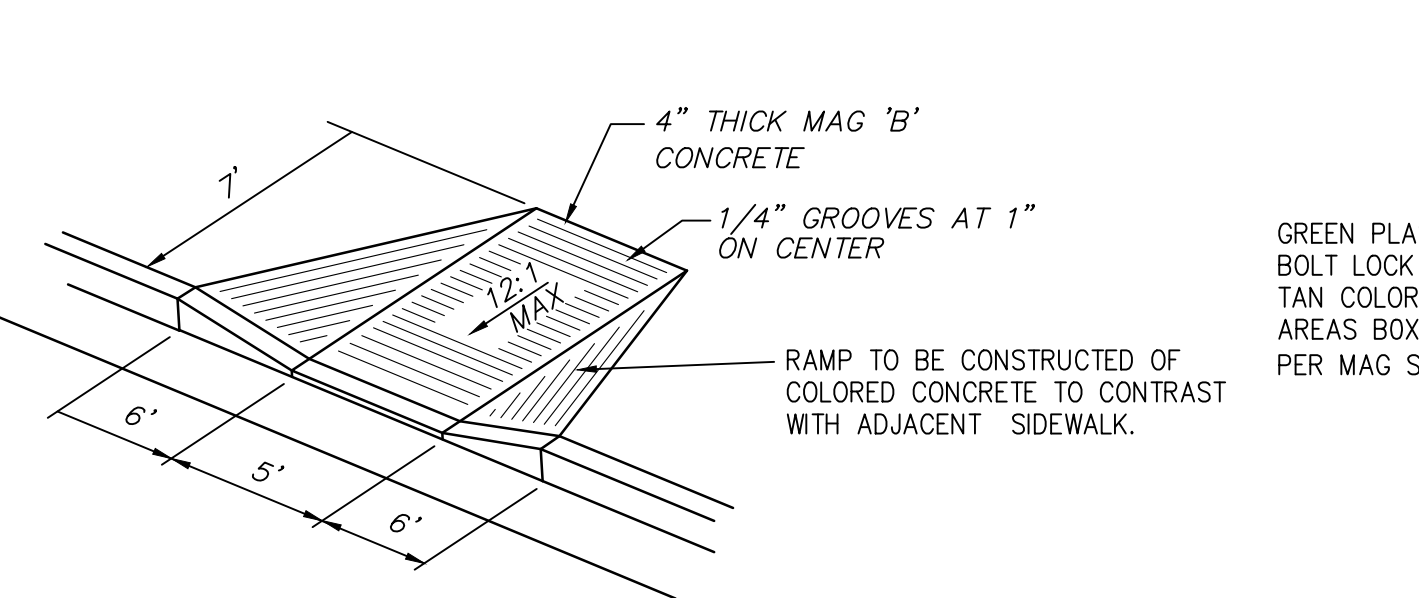
NOTE 1: Minimum Cover Thickness in non-trafficked areas is based on landscape surface with a 40 degree load distribution. In trafficked areas, Minimum Cover Thicknesses are based on an equal-weighted pavement with a 30 degree load distribution.
NOTE 2: Calculations assume backfill with a minimum 32-degree angle of internal friction and a maximum density of 120 lb per cubic foot, and a second granular elevation at least 2 feet below the invert of the tank.
NOTE 3: Contact ADEQ for guidance for inlet / outlet pipes larger than 24-inch diameter.



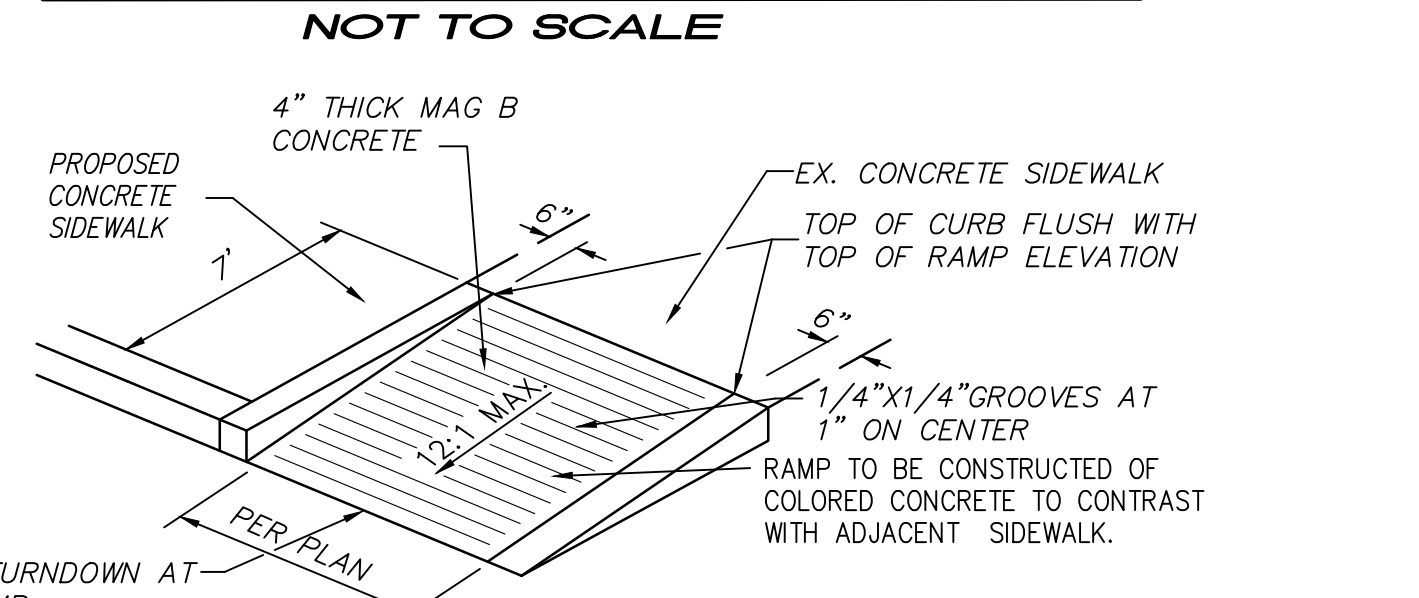
DETAIL A - PIPE WRAP
NOTE 1: Cut inlet / outlet pipe hole prior to side panel installation.
NOTE 2: Pipe holes should be aligned with the vertical centerline of the side panel. For pipes larger than 18 inches, center the pipe hole along the seam of two side panels.
NOTE 3: Contact ADEQ for guidance for inlet / outlet pipes larger than 24-inch diameter.



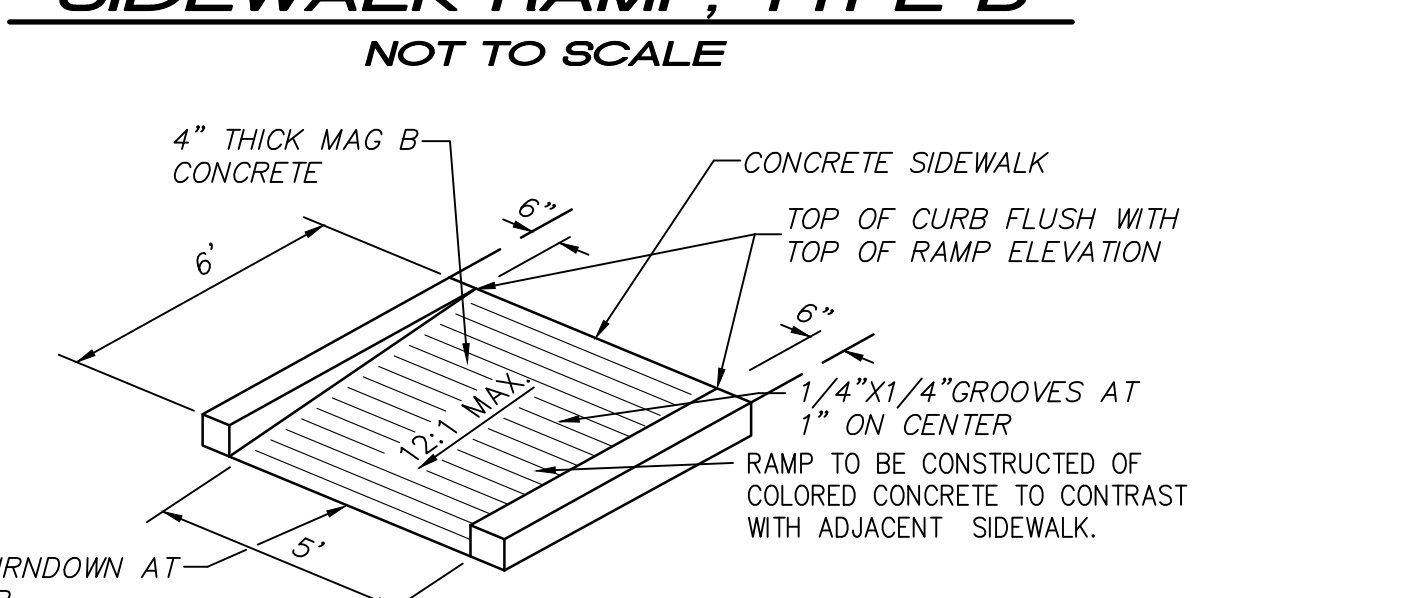
2 LAYER 900SD ACCESS POINT CROSS SECTION
NOTE 1: Ventilation may be crucial to reducing the pressure build up within the system. If solid access covers are used, alternative methods of ventilation are recommended.
NOTE 2: Concrete Load Plate not required for approved applications. Consult Engineer of Record for requirements.
NOTE 3: The Remote Access Plate is approximately the size of half of a half-module. The half-module at the top of the tank must be cut in half to accommodate the Remote Access Plate.



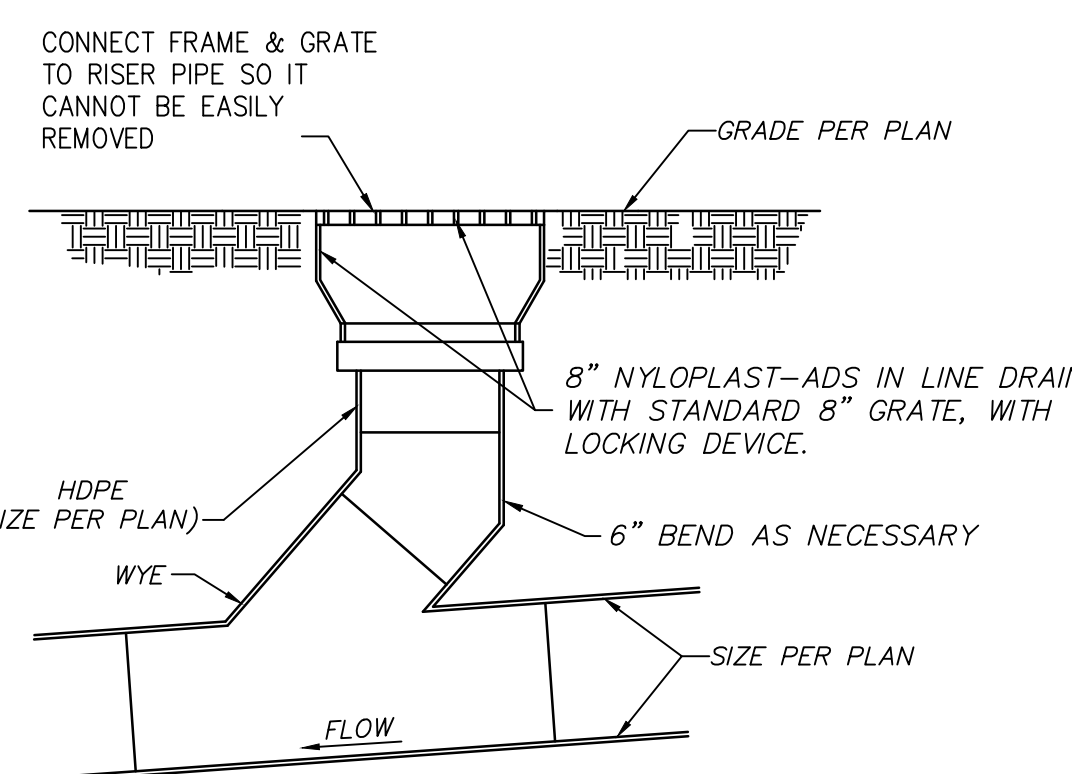
SIDEWALK RAMP, TYPE A
NOT TO SCALE



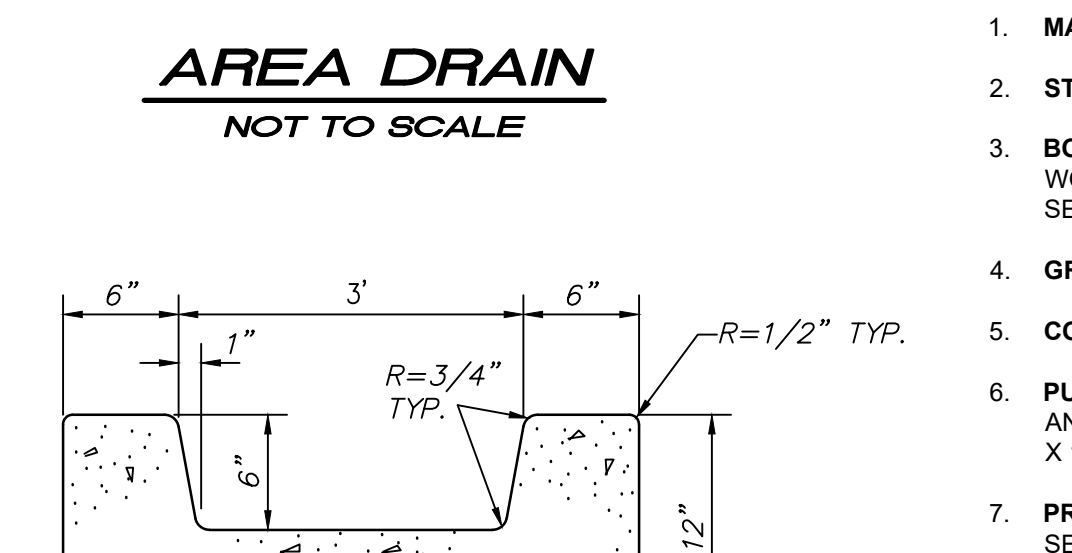
SIDEWALK RAMP, TYPE B
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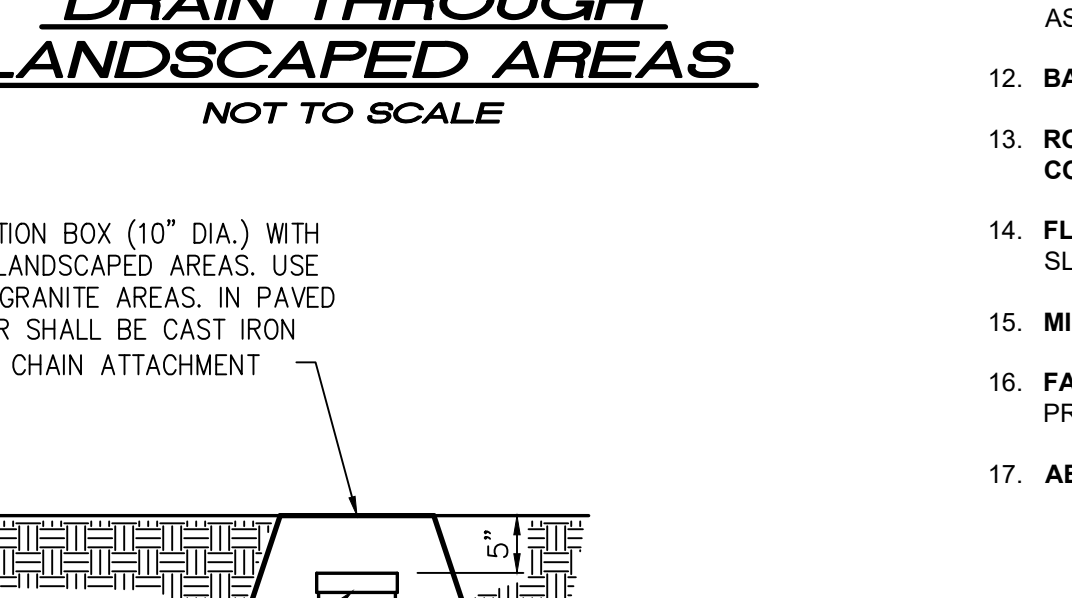
SIDEWALK RAMP, TYPE C
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AREA DRAIN
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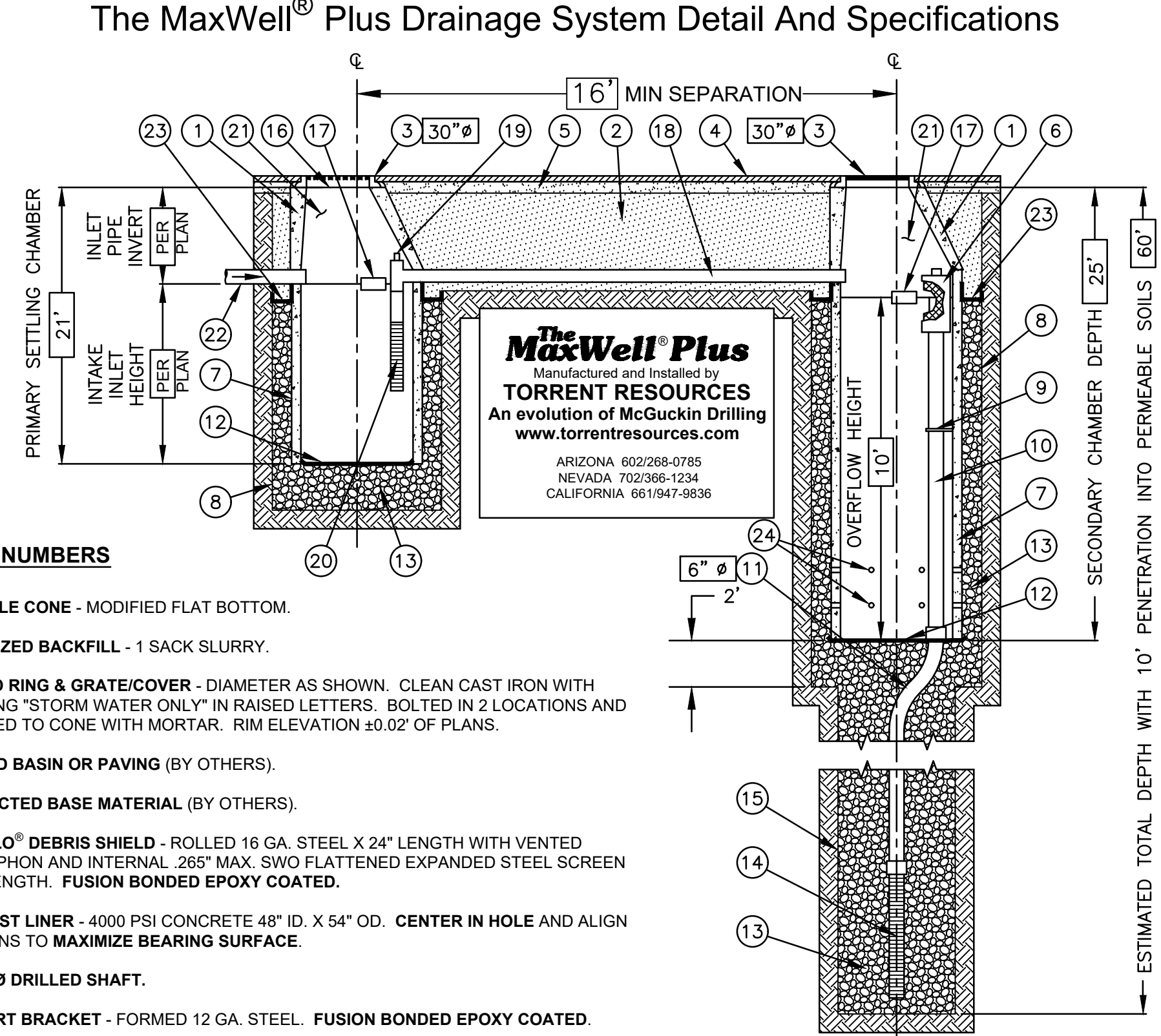


DRAIN THROUGH LANDSCAPED AREAS
NOT TO SCALE



STORM DRAIN CLEANOUT
NOT TO SCALE

The MaxWell® Plus Drainage System Detail And Specifications



ITEM NUMBERS

- MANHOLE CONE - MODIFIED FLAT BOTTOM.
- STABILIZED BACKFILL - 1 SACK SLURRY.
- BOLTED RING & GRATE/COVER - 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.
- GRADED BASIN OR PAVING (BY OTHERS).
- COMPACTED BASE MATERIAL (BY OTHERS).
- PUREFLO® DEBRIS SHIELD - ROLLED 16 GA. STEEL X 24" LENGTH WITH VENTED ANTI-SIPHON AND INTERNAL .265" MAX. SWO FLATTENED EXPANDED STEEL SCREEN X 12" LENGTH. FUSION BONDED EPOXY COATED.
- PRE-CAST LINER - 4000 PSI CONCRETE 48" ID. X 54" OD. CENTER IN HOLE AND ALIGN SECTIONS TO MAXIMIZE BEARING SURFACE.
- MIN. 6" Ø DRILLED SHAFT.
- SUPPORT BRACKET - FORMED 12 GA. STEEL. FUSION BONDED EPOXY COATED.
- OVERFLOW PIPE - SCH. 40 PVC MATED TO DRAINAGE PIPE AT BASE SEAL.
- DRAINAGE PIPE - ADS HIGHWAY GRADE WITH TRI-A COUPLER. SUSPEND PIPE DURING BACKFILL OPERATIONS TO PREVENT BUCKLING OR BREAKAGE. DIAMETER AS NOTED.
- CONNECTOR PIPE - 4" Ø SCH. 40 PVC.
- ANTI-SIPHON VENT WITH FLOW REGULATOR.
- INTAKE SCREEN - SCH. 40 PVC 0.120" MODIFIED SLOTTED WELL SCREEN WITH 32 SLOTS PER ROW/FT. DIAMETER VARIES 120" OVERALL LENGTH WITH TRI-B COUPLER.
- MIN. 4" Ø SHAFT - DRILLED TO MAINTAIN PERMEABILITY OF DRAINAGE SOILS.
- FABRIC SEAL - U-V RESISTANT GEOTEXTILE - TO BE REMOVED BY CUSTOMER AT PROJECT COMPLETION.
- ABSORBENT - HYDROPHOBIC PETROCHEMICAL SPONGE. MIN. 128 OZ. CAPACITY.

NOTES:
1 INSTALL 8" WIDE BY 8" THICK CONCRETE COLLAR AROUND GRATE (MAG CLASS B CONCRETE).
2 CONTRACTOR TO REGISTER DRYWELL WITH ADEQ.

CITY OF PHOENIX DRY WELL NOTES:

A. 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) 771-4686.

B. 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.

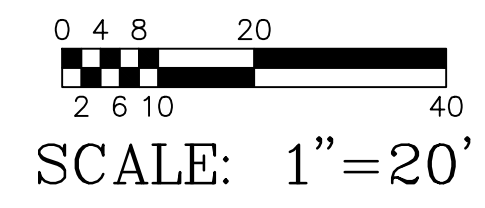
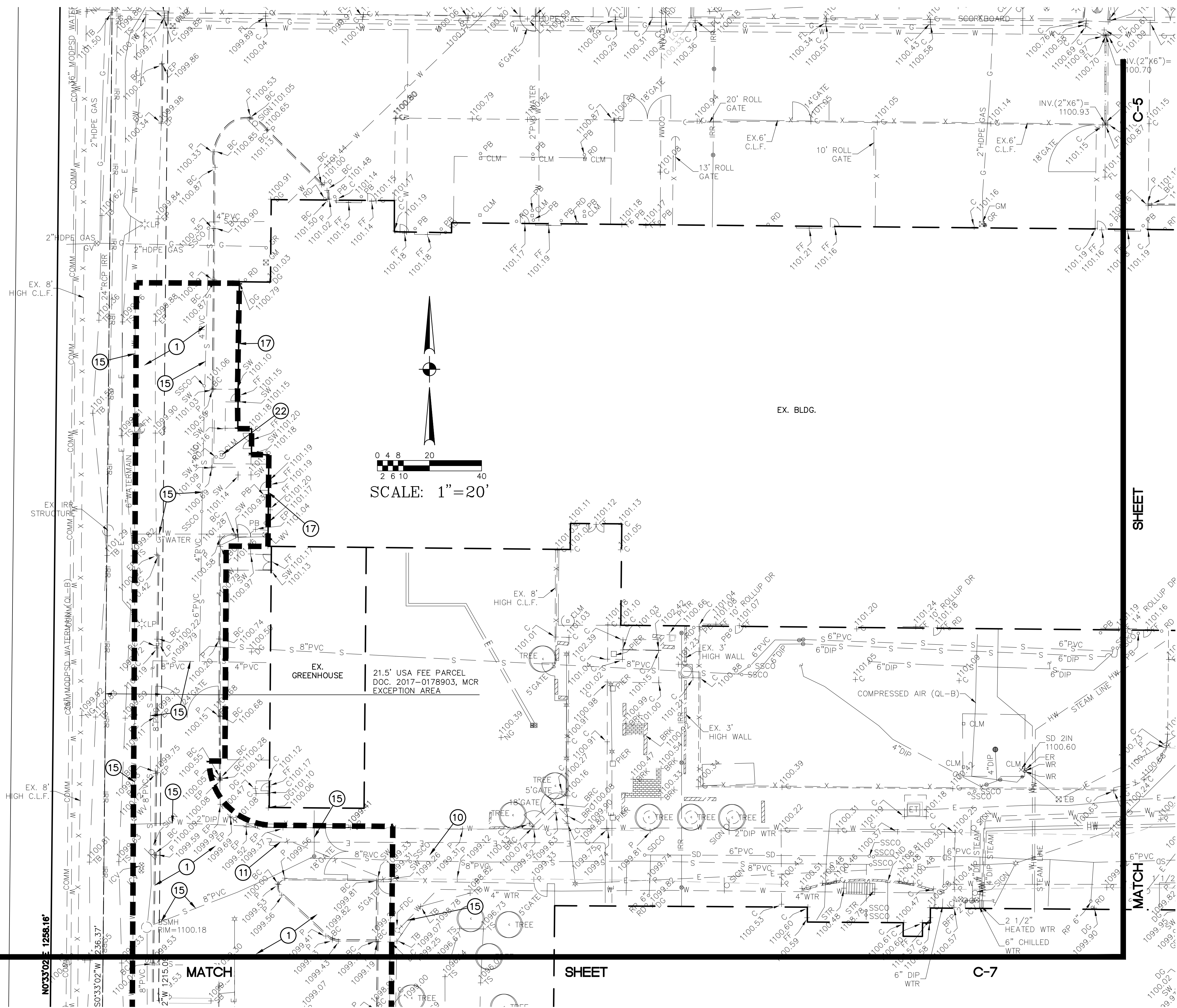
C. THE OWNER/DEVELOPER IS RESPONSIBLE FOR INSTALLING DRYWELL(S) SHOULD THE RETENTION BASINS FAIL TO DRAIN WITHIN 36 HOURS.



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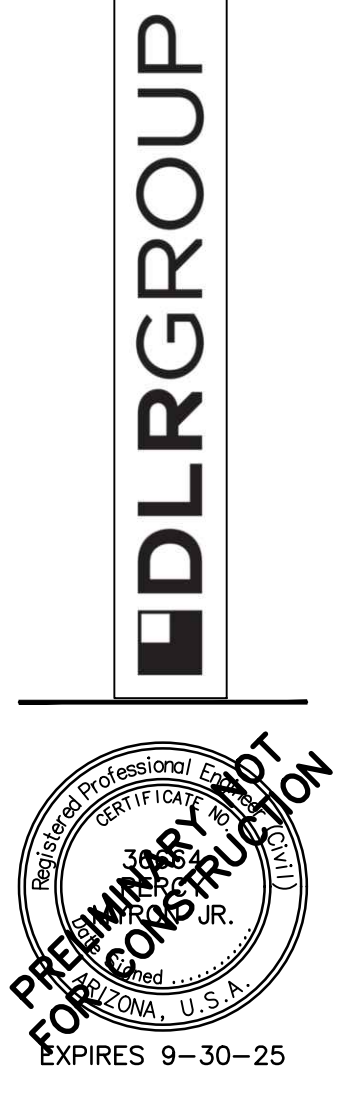


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- ⑨ EXISTING FIRE HYDRANT TO REMAIN. PROTECT FROM DAMAGE.
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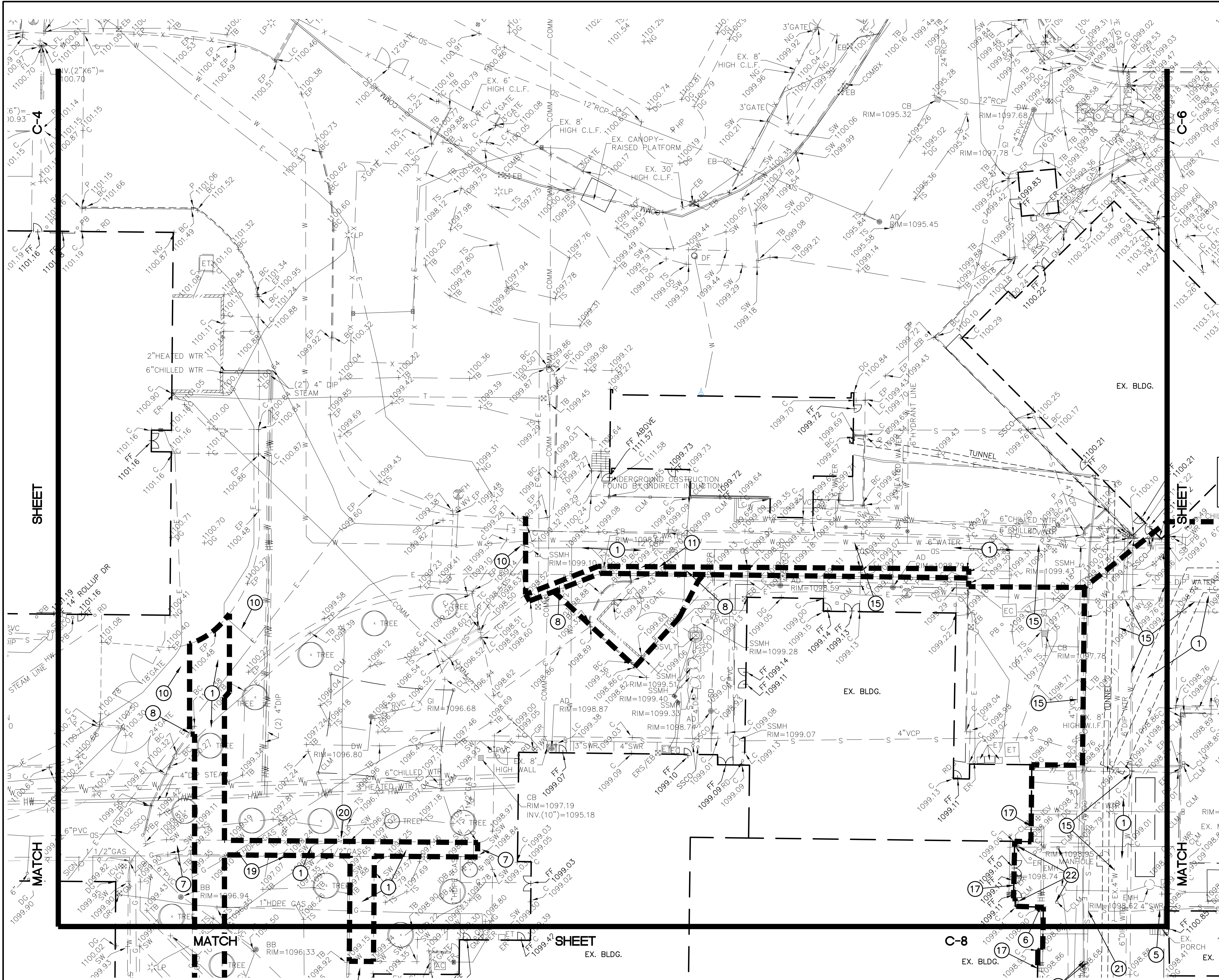
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METRO TECH - PH2
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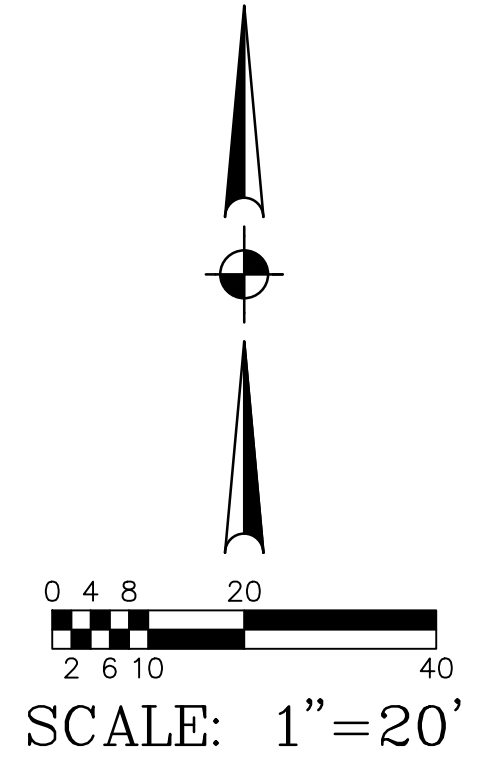


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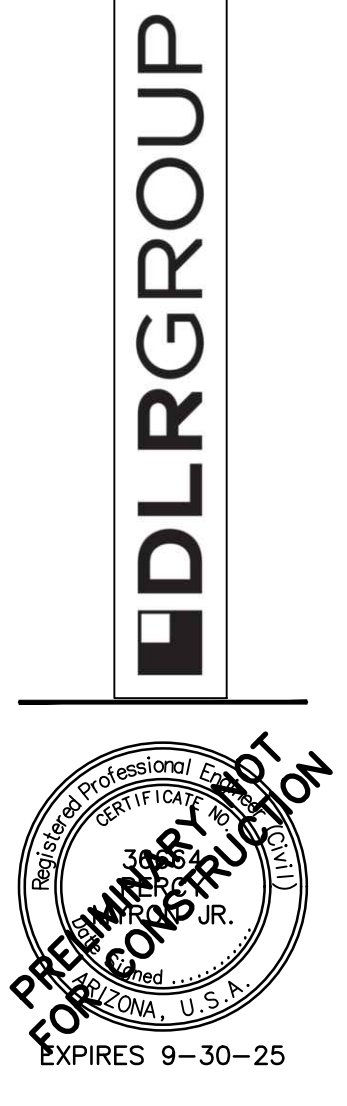


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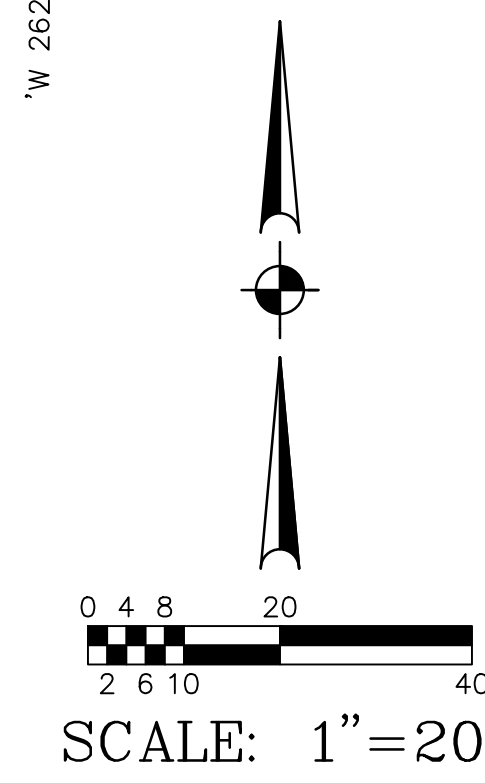


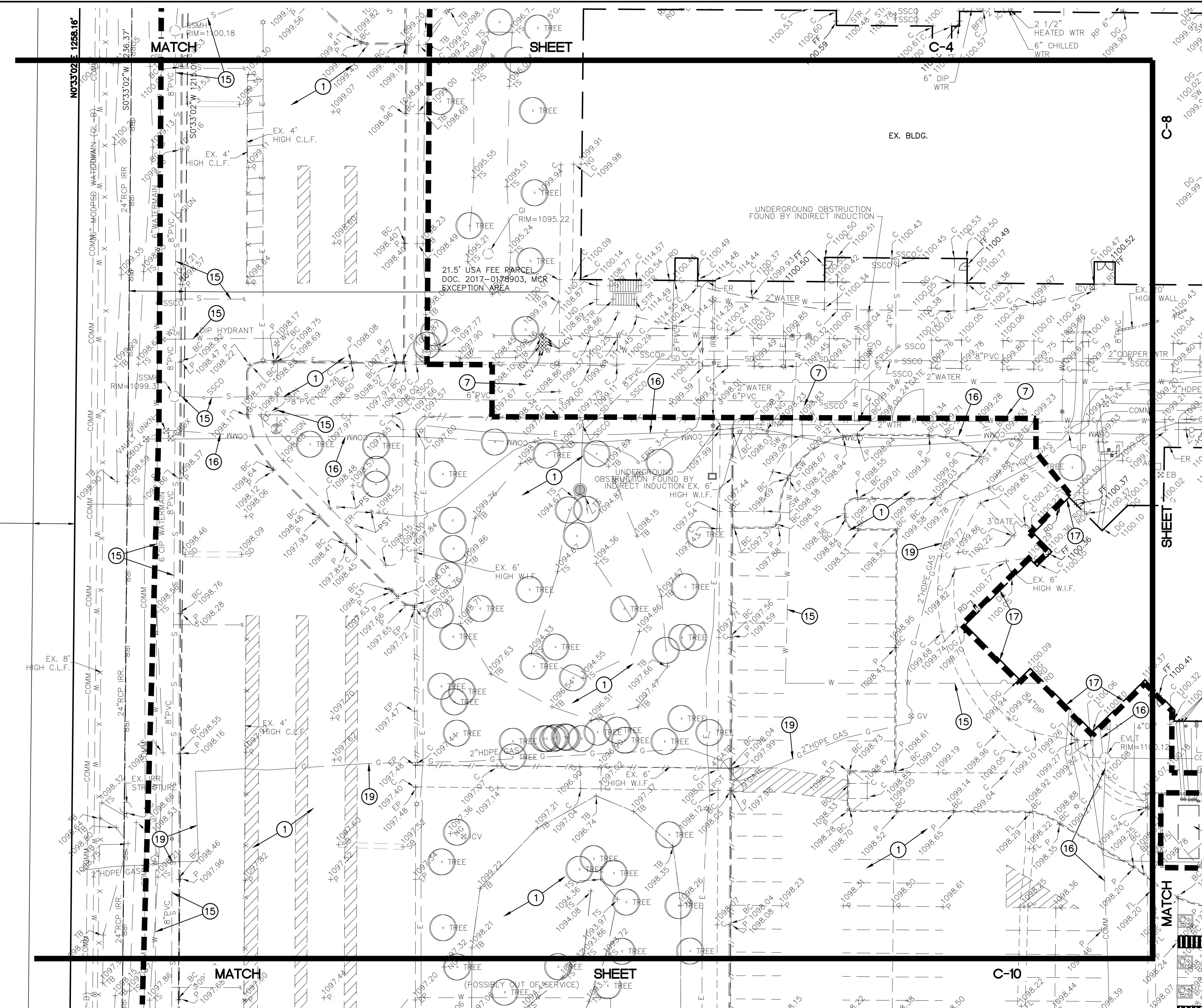
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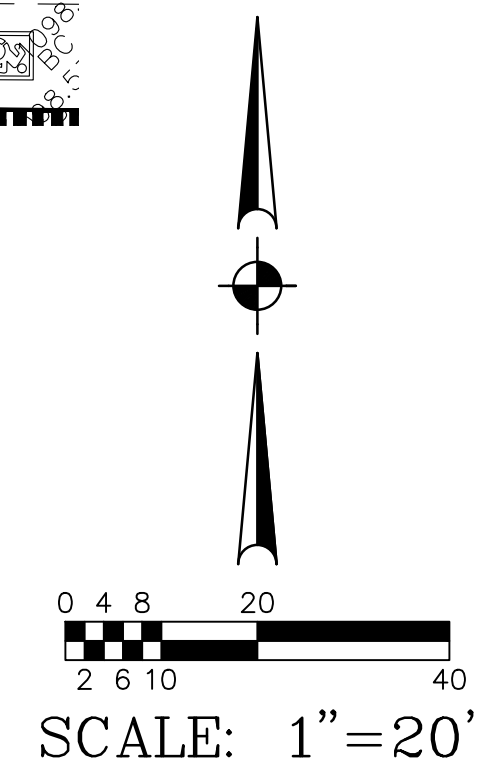
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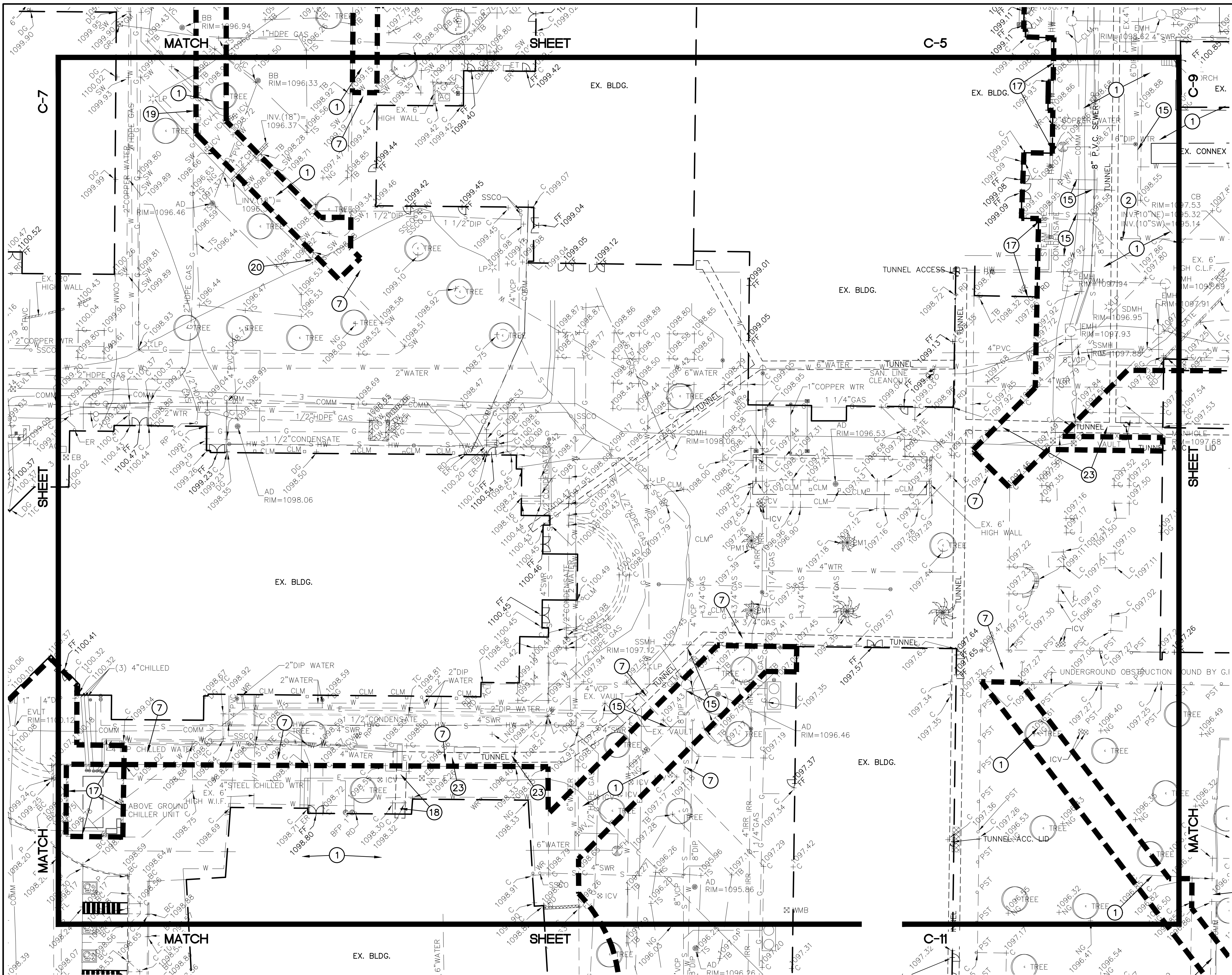
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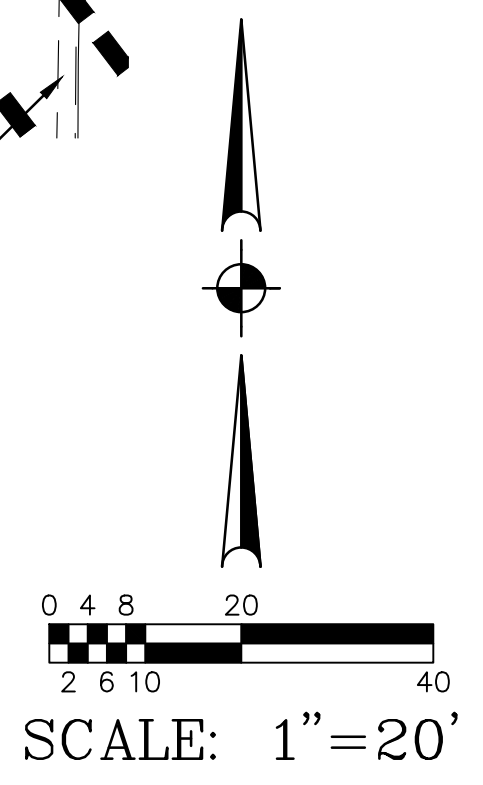


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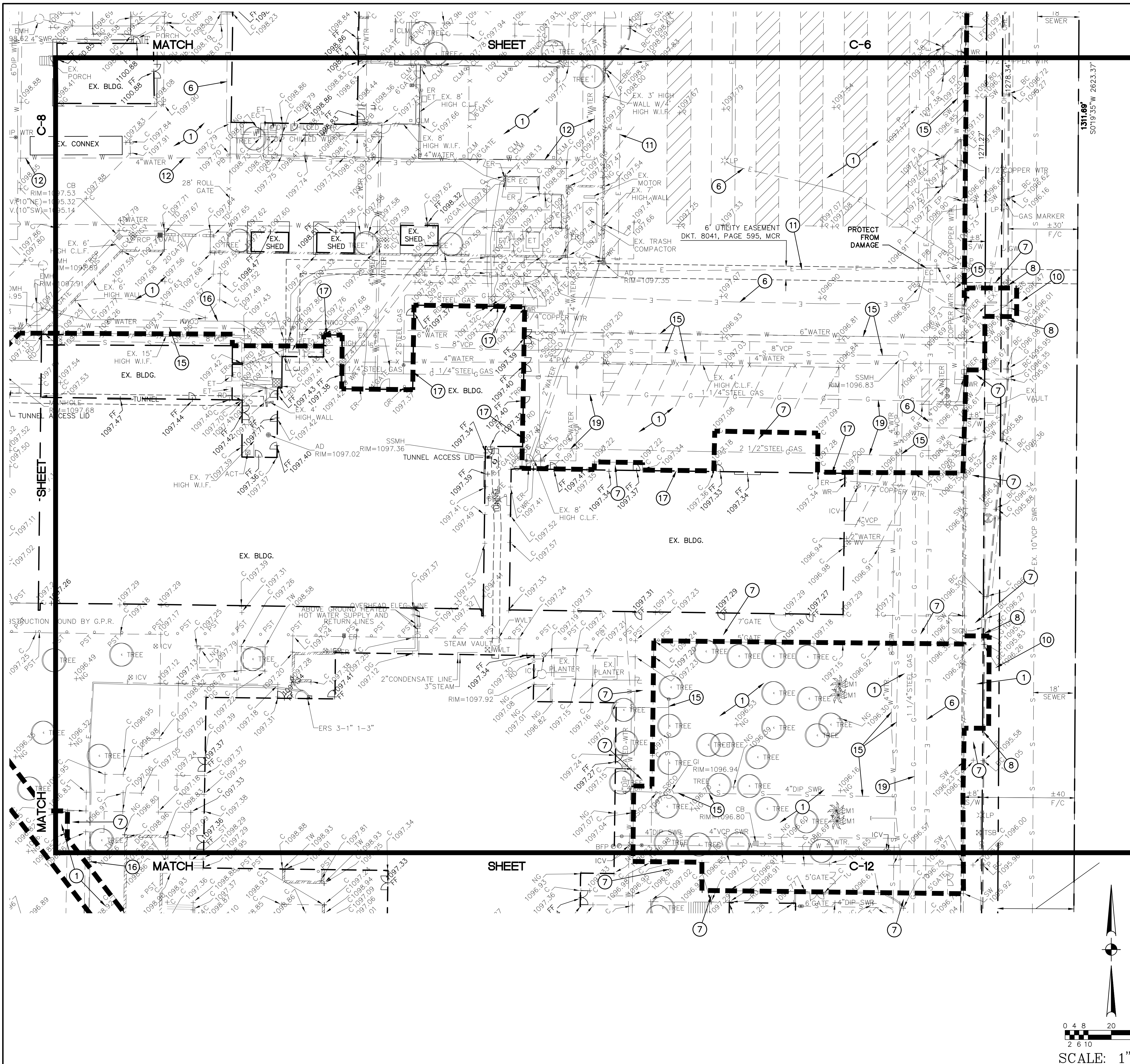


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METRO TECH - PH2
 PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
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 Revisions



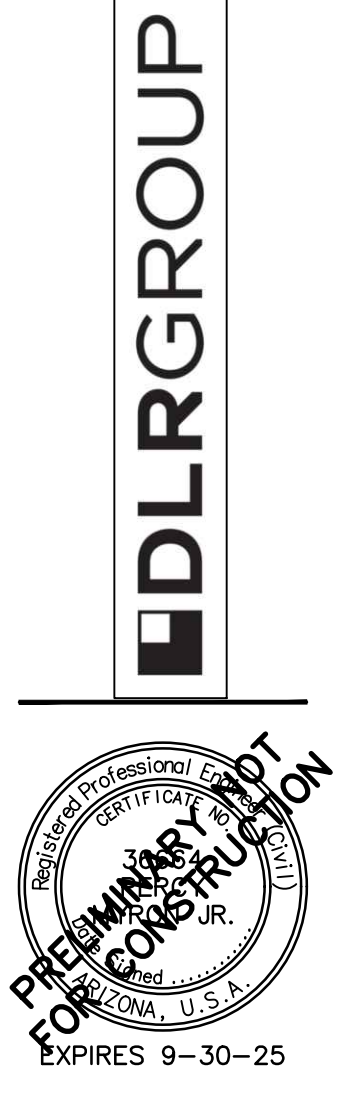


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- ② INSTALL WATER TIGHT CAP AND THRUST BLOCK ON WATER LINE. INSTALL CONCRETE CAP ON END OF IRRIGATION LINE.
- ③ REMOVE EXISTING FLOOD IRRIGATION LINE. REMOVE EXISTING STORM DRAIN LINES, AREA DRAINS, AND CATCH BASINS. SEE GRADING AND DRAINAGE PLAN FOR ADDITIONAL INFORMATION.
- ④ EXISTING WATER LINE OR FIRE LINE TO BE REMOVED. SEE DOMESTIC WATER AND PRIVATE FIRE LINE PLANS FOR MORE INFORMATION.
- ⑤ EXISTING SANITARY SEWER LINE TO BE REMOVED. SEE PRIVATE SANITARY SEWER LINE PLANS FOR MORE INFORMATION.
- ⑥ SEE ELECTRICAL DRAWINGS FOR TREATMENT OF EXISTING LIGHT POLES, ELECTRICAL, COMMUNICATION LINES AND MANHOLES, ETC.
- ⑦ PROTECT EXISTING CONCRETE SIDEWALK OR PAVEMENT FROM DAMAGE.
- ⑧ PROTECT EXISTING CONCRETE SINGLE, VERTICAL CURB AND GUTTER, OR VALLEY GUTTER FROM DAMAGE.
- ⑨ EXISTING FIRE HYDRANT TO REMAIN. PROTECT FROM DAMAGE.
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- ⑪ PROTECT EXISTING ELECTRICAL LINES FROM DAMAGE.
- ⑫ REMOVE EXISTING WATER LINE.
- ⑬ SEE GRADING AND DRAINAGE PLANS FOR TREATMENT OF EXISTING DRYWELL SYSTEM. PROTECT FROM DAMAGE.
- ⑭ PROTECT EXISTING STORM DRAIN LINE OR FLOOD IRRIGATION LINE FROM DAMAGE.
- ⑮ PROTECT EXISTING SEWER LINE, WATER LINE OR FIRE LINE FROM DAMAGE.
- ⑯ PROTECT EXISTING COMMUNICATION LINE FROM DAMAGE.
- ⑰ EXISTING WALL TO REMAIN. PROTECT FROM DAMAGE.
- ⑱ SEE PLUMBING OR MECHANICAL DRAWINGS FOR TREATMENT OF/REMOVAL OF EXISTING UTILITY TUNNEL AND/OR CHILLED WATER LINES.
- ⑲ EXISTING GAS LINE TO REMAIN. PROTECT FROM DAMAGE.
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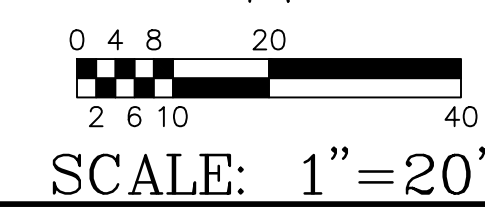
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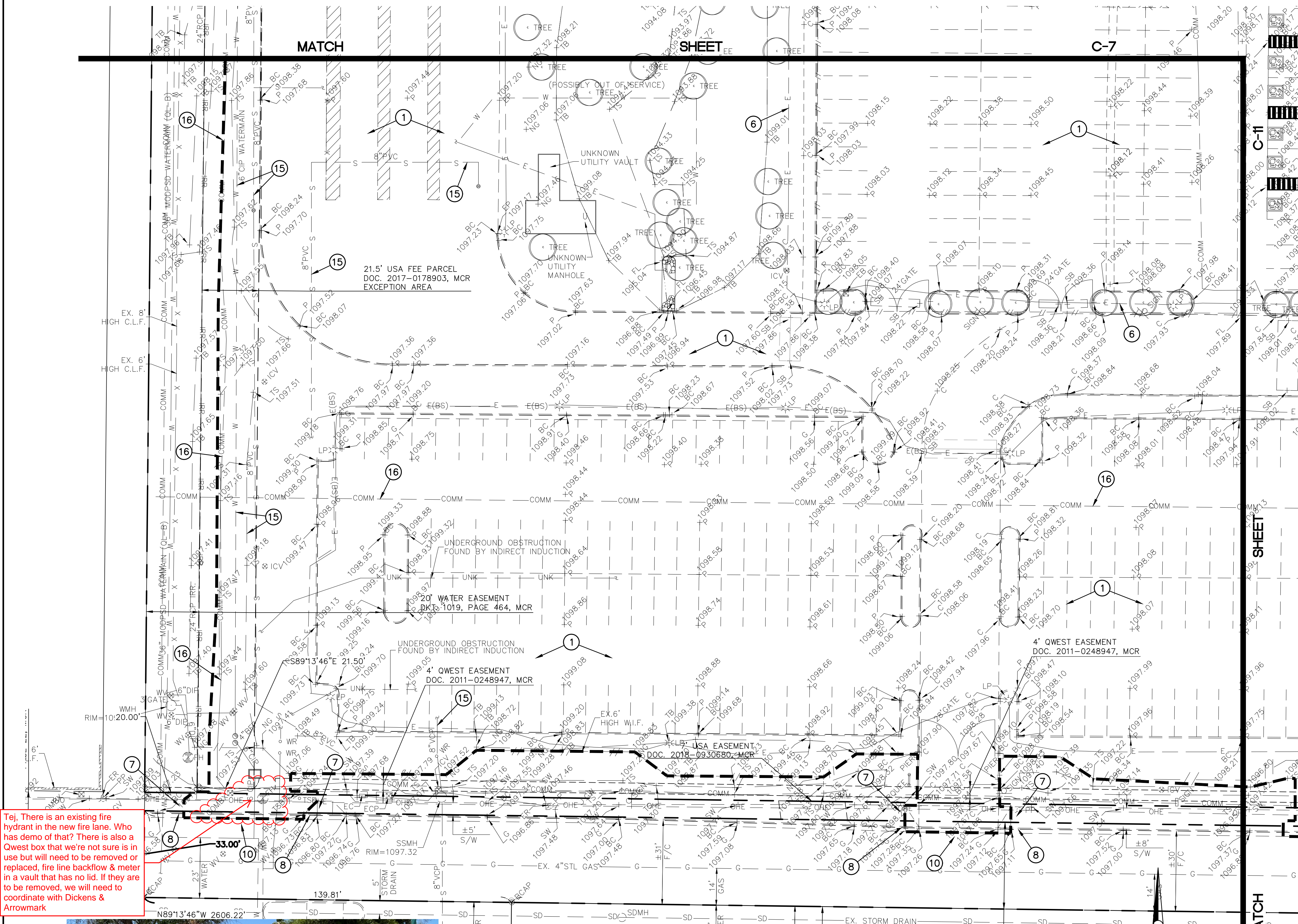


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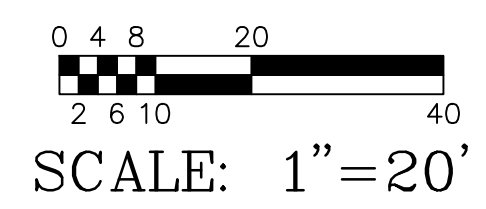
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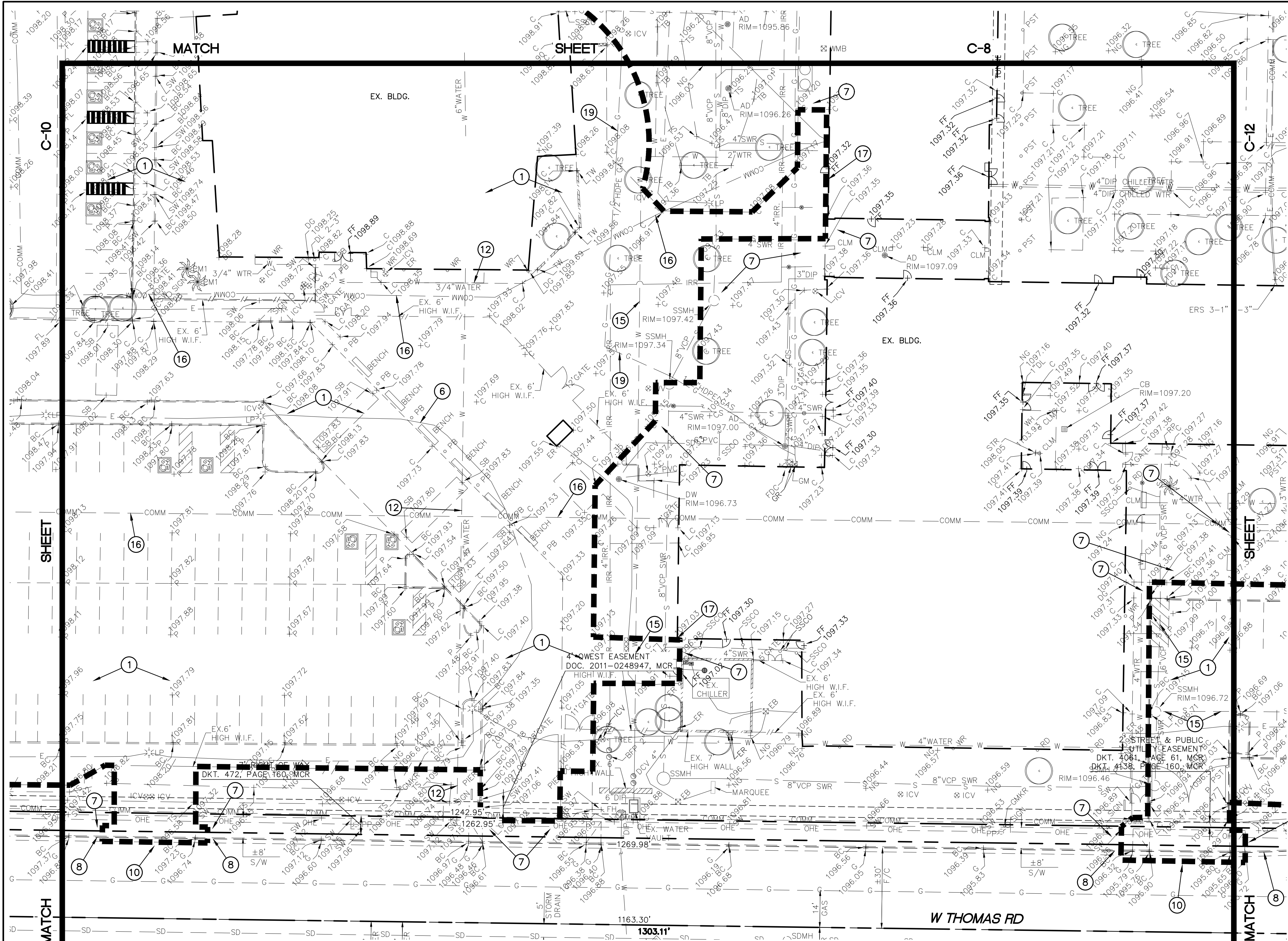
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23. EXISTING UTILITY TUNNEL TO REMAIN. PROTECT FROM DAMAGE.



Taj, There is an existing fire hydrant in the new fire lane. Who has demo of that? There is also a Qwest box that we're not sure is in use but will need to be removed or replaced, fire line backflow & meter in a vault that has no lid. If they are to be removed, we will need to coordinate with Dickens & Arrowmark



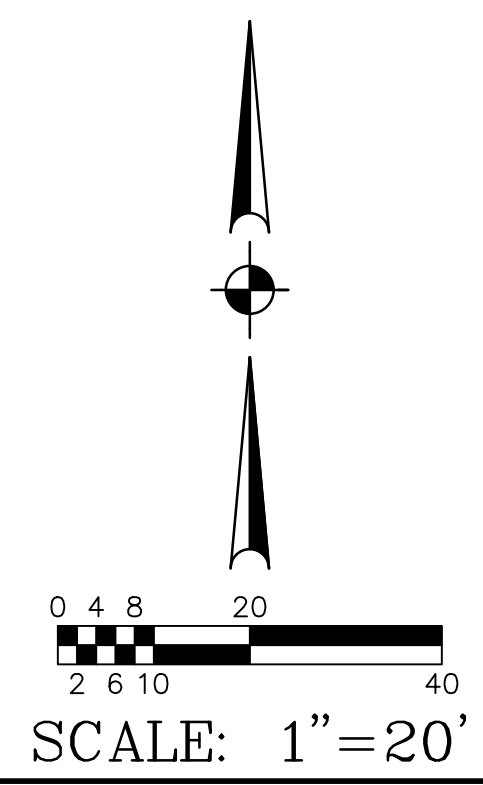


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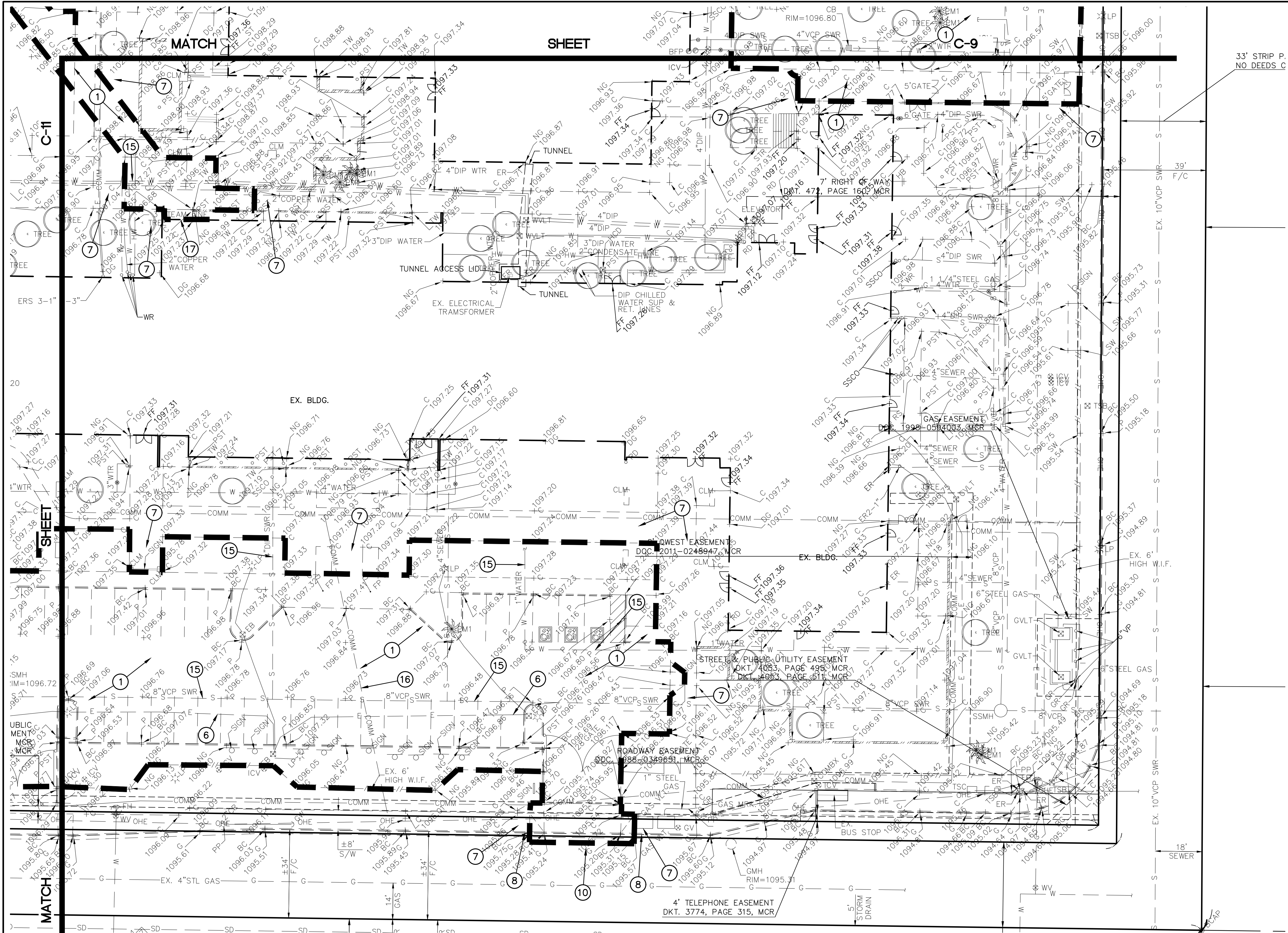
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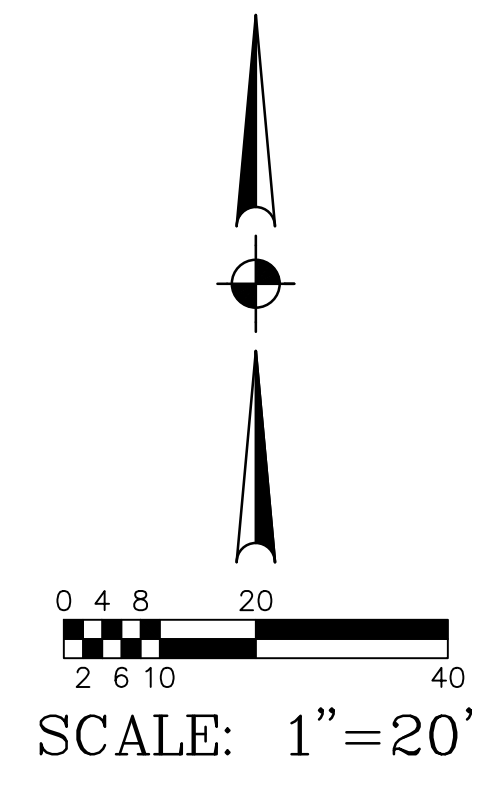


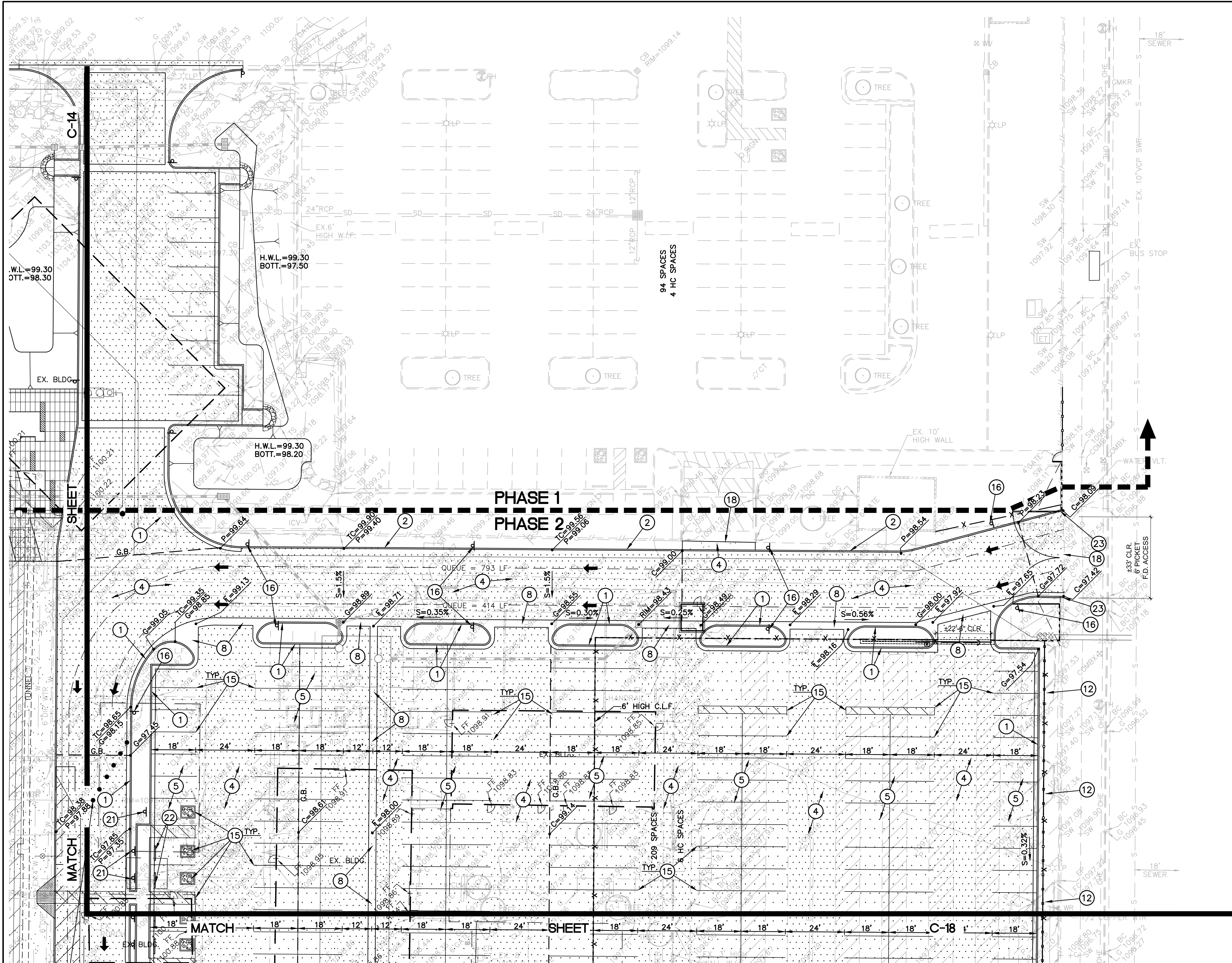
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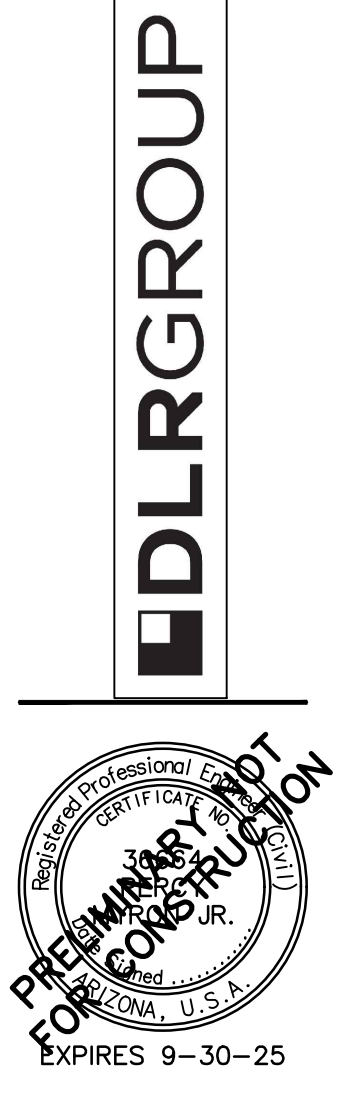
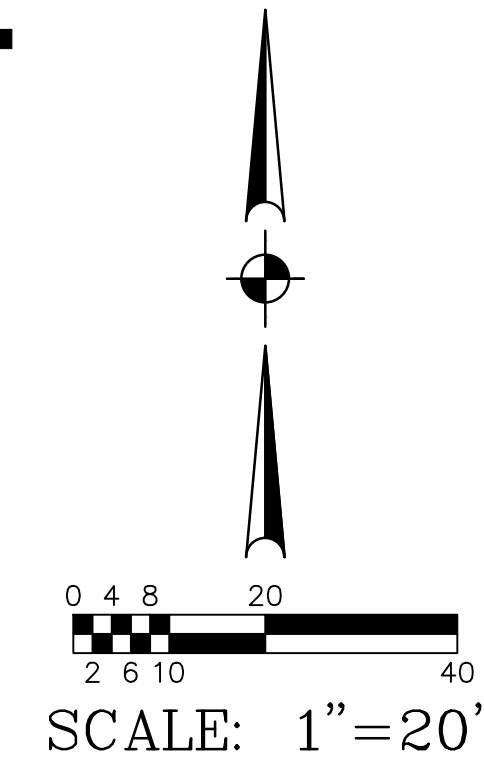




**GRADING AND DRAINAGE
CONSTRUCTION NOTES:**

- ① CONSTRUCT CONCRETE VERTICAL CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-1, TYPE A).
- ② CONSTRUCT CONCRETE SINGLE CURB (MAG STANDARD DETAIL NO. 222, TYPE 'A').
- ③ INSTALL CONCRETE SIDEWALK RAMP, TYPE PER PLAN (SEE DETAIL ON SHEET C-3).
- ④ INSTALL ASPHALTIC CONCRETE PAVEMENT (3" A.C. (1/2" MIX) OVER 8" A.B.C. OVER COMPACTED SUBGRADE).
- ⑤ INSTALL ASPHALTIC CONCRETE PAVEMENT (2" A.C. (1/2" MIX) OVER 6" A.B.C. OVER COMPACTED SUBGRADE).
- ⑥ CONSTRUCT CONCRETE SIDEWALK (CITY OF PHOENIX STANDARD DETAIL NO. P1230). SEE LANDSCAPE DRAWINGS FOR SCORING AND FINISH.
- ⑦ INSTALL THICKENED PAVEMENT EDGE (MAG STANDARD DETAIL 201, TYPE B).
- ⑧ CONSTRUCT CONCRETE VALLEY GUTTER AND APRON (MAG STANDARD DETAIL NO. 240). WIDTH TO BE 3'.
- ⑨ CONSTRUCT SEVEN INCH (7") THICK 4,000 P.S.I. (AT 28 DAYS) CONCRETE PAVING OR CONCRETE FIRE LANE.
- ⑩ INSTALL DRAIN THROUGH LANDSCAPE AREA. (SEE DETAIL ON SHEET C-3).
- ⑪ INSTALL CONCRETE DRIVEWAY ENTRANCE (MAG STANDARD DETAIL 250-1).
- ⑫ STRAIGHT GRADE FROM 1" BELOW TOP OF CONCRETE SIDEWALK OR CURB AT A 5:1 MAXIMUM SLOPE TO MATCH EXISTING GRADE.
- ⑬ CONSTRUCT CONCRETE SPLASHPAD (SEE DETAIL SHEET C-3).
- ⑭ INSTALL TRASH ENCLOSURE (SEE ARCHITECTURAL DRAWINGS FOR DETAILS).
- ⑮ PAINT STRIPE PARKING LOT TO THE ALIGNMENTS INDICATED, INCLUDING THE PAINTING OF ALL HANDICAP SYMBOLS AND WALKWAYS, DIRECTIONAL ARROWS, PARKING STALLS, DROP-OFF AREAS, ETC. (TYPICAL).
- ⑯ INSTALL FIRE LANE SIGN PER CITY OF PHOENIX AND STATE FIRE MARSHAL'S REQUIREMENTS. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B'.
- ⑰ INSTALL 12" SIDEWALK SCUPPER (MAG STANDARD DETAIL NO. 206).
- ⑱ MATCH EXISTING GRADE.
- ⑲ SEE LANDSCAPE PLANS FOR FENCING AND GATES.
- ⑳ INSTALL CONCRETE LANDSCAPE CURB (SEE LANDSCAPE PLANS FOR DETAILS).
- ㉑ INSTALL HANDICAP PARKING SIGN PER CITY OF PHOENIX AND ADA REQUIREMENTS. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B'. (TOP OF SIGN SHALL BE 6" ABOVE GRADE). TYPICAL AT EACH HANDICAP SPACE.
- ㉒ INSTALL PRECAST SAFETY CURB (MAG STANDARD DETAIL NO. 150, TYPE B-3).
- ㉓ INSTALL CURB TERMINATION (MAG STANDARD DETAIL NO. 222).
- ㉔ INSTALL "DO NOT ENTER" SIGN (M.U.T.C.D. R5-1, 36" X 36", WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B' (TOP OF SIGN SHALL BE 6" ABOVE GRADE)).

8" WHITE ROUND
1 WAY CERAMIC
BUTTON (PC MODEL
RPMCB(X)W
(TYP. 7 EA.)



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FENCING CONSTRUCTION NOTES:

- ① INSTALL 24-FOOT HIGH CHAIN LINK FENCE WITH PLASTIC BASEBOARD (SEE DETAIL ON SHEET C-2). INSTALL BASEBOARDS AROUND BACKSTOP AND STOP AT DUGOUT. INSTALL 10" WIDE BY 8" DEEP CONCRETE CURB BENEATH FENCE. TOP OF CURB TO BE 1" ABOVE FINISHED GRADE.
- ② INSTALL 6-FOOT HIGH CHAIN LINK FENCE WITH PRIVACY SLATS AND A 6" WIDE BY 8" DEEP CONCRETE CURB BENEATH FENCE. TOP OF CURB TO BE 2" ABOVE FINISHED GRADE, EXCEPT AT CONCRETE SPLASHPAD WHERE TOP OF CURB ELEVATION IS EQUAL TO THE FINISH GRADE ELEVATION.
- ③ INSTALL BUILDING DUGOUT (SEE ARCHITECTURAL DRAWINGS FOR DETAILS).
- ④ INSTALL HOME PLATE, SCHUTT HOLLYWOOD BURY ALL HOME PLATE (#12807100) OR ENGINEER APPROVED EQUAL (SEE DETAIL ON SHEET C-2).

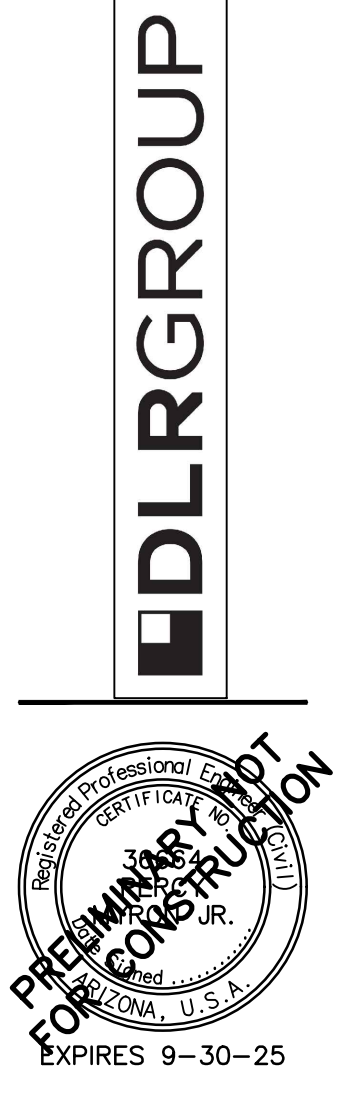
- ⑤ INSTALL BASE, SCHUTT BBPLS ORIGINAL JACK CORBETT HOLLYWOOD BASE W/ANCHORS. SCHUTT ANCHOR PLUG W/COLORED INDICATORS OR APPROVED EQUAL (SEE DETAIL ON SHEET C-2).
- ⑥ INSTALL PITCHING MOUND RUBBER, SCHUTT 4-SIDED PROFESSIONAL PITCHING RUBBER (#12808500 OR ENGINEER APPROVED EQUAL (SEE DETAIL ON SHEET C-2).
- ⑦ CONSTRUCT PITCHERS MOUND (SEE DETAIL ON SHEET C-2).
- ⑧ INSTALL 4" THICK INFIELD MIX. (SEE LANDSCAPE DRAWINGS).
- ⑨ INSTALL 8-FOOT HIGH BY 4-FOOT WIDE CHAIN LINK GATE WITH PRIVACY SLATS. INSTALL 6" WIDE BY 8" DEEP CONCRETE CURB BENEATH GATE.

- ⑩ INSTALL 8-FOOT HIGH CHAIN LINK FENCE WITH PRIVACY SLATS AND A 6" WIDE BY 8" DEEP CONCRETE CURB BENEATH FENCE. TOP OF CURB TO BE 1" ABOVE FINISHED GRADE, EXCEPT AT THE END NEAR THE OUTFIELD FENCE WHERE IT TRANSITIONS IN 28-FEET TO BE 2" ABOVE FINISH GRADE.
- ⑪ INSTALL BATTING CAGE (SEE DETAIL ON SHEET C-2). INSTALL NET PER JUGSPORT BATTING CAGE #9 100'L X 18'W X 12'H #96 TWISTED KNOTTED BLACK POLYESTER.
- ⑫ INSTALL 8-FOOT HIGH BY 8-FOOT WIDE CHAIN LINK DOUBLE SWING GATE. INSTALL 6" WIDE BY 8" DEEP CONCRETE CURB BENEATH GATE.
- ⑬ INSTALL 8-FOOT HIGH BY 12-FOOT WIDE CHAIN LINK DOUBLE SWING GATE. INSTALL 6" WIDE BY 8" DEEP CONCRETE CURB BENEATH GATE.
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GRADING AND DRAINAGE CONSTRUCTION NOTES:

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- ② CONSTRUCT CONCRETE SINGLE CURB (MAG STANDARD DETAIL NO. 222, TYPE 'A').
- ③ INSTALL CONCRETE SIDEWALK RAMP, TYPE PER PLAN (SEE DETAIL ON SHEET C-3).
- ④ INSTALL ASPHALTIC CONCRETE PAVEMENT (3" A.C. (1/2" MIX) OVER 8" A.B.C. OVER COMPACTED SUBGRADE).
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- ⑧ CONSTRUCT CONCRETE VALLEY GUTTER AND APRON (MAG STANDARD DETAIL NO. 240). WIDTH TO BE 3'.
- ⑨ CONSTRUCT SEVEN INCH (7") THICK 4,000 P.S.I. (AT 28 DAYS) CONCRETE PAVING OR CONCRETE FIRE LANE.
- ⑩ INSTALL DRAIN THROUGH LANDSCAPE AREA. (SEE DETAIL ON SHEET C-3).
- ⑪ INSTALL CONCRETE DRIVEWAY ENTRANCE (MAG STANDARD DETAIL 250-1).
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- ⑮ PAINT STRIPE PARKING LOT TO THE ALIGNMENTS INDICATED, INCLUDING THE PAINTING OF ALL HANDICAP SYMBOLS AND WALKWAYS, DIRECTIONAL ARROWS, PARKING STALLS, DROP-OFF AREAS, ETC. (TYPICAL).
- ⑯ INSTALL FIRE LANE SIGN PER CITY OF PHOENIX AND STATE FIRE MARSHAL'S REQUIREMENTS. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B'.
- ⑰ INSTALL 12" SIDEWALK SCUPPER (MAG STANDARD DETAIL NO. 206).
- ⑱ MATCH EXISTING GRADE.
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- ㉒ INSTALL PRECAST SAFETY CURB (MAG STANDARD DETAIL NO. 150, TYPE B-3).
- ㉓ INSTALL CURB TERMINATION (MAG STANDARD DETAIL NO. 222).
- ㉔ INSTALL "DO NOT ENTER" SIGN (M.U.T.C.D. R5-1, 36" X 36", WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B' (TOP OF SIGN SHALL BE 6" ABOVE GRADE)).



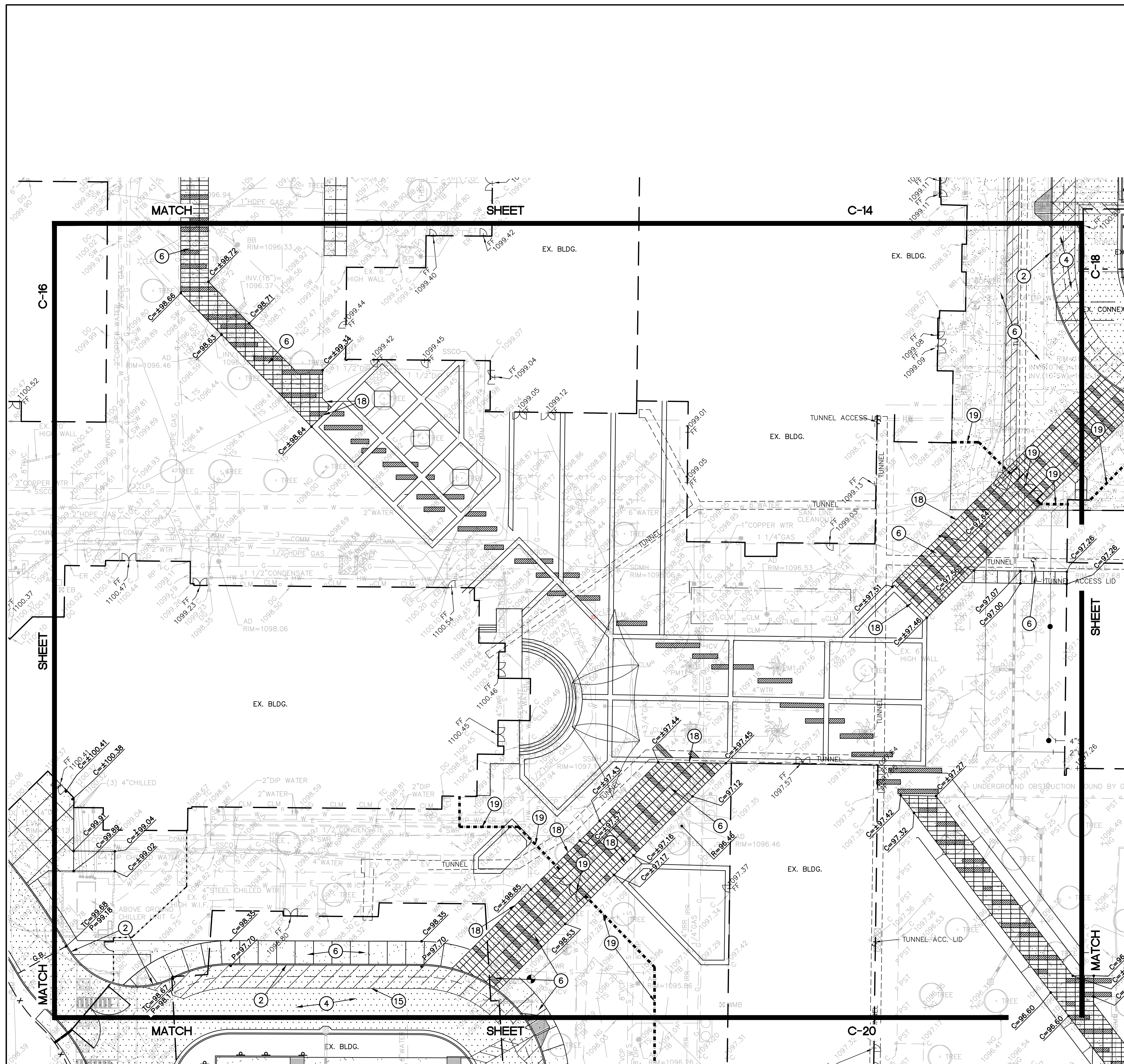
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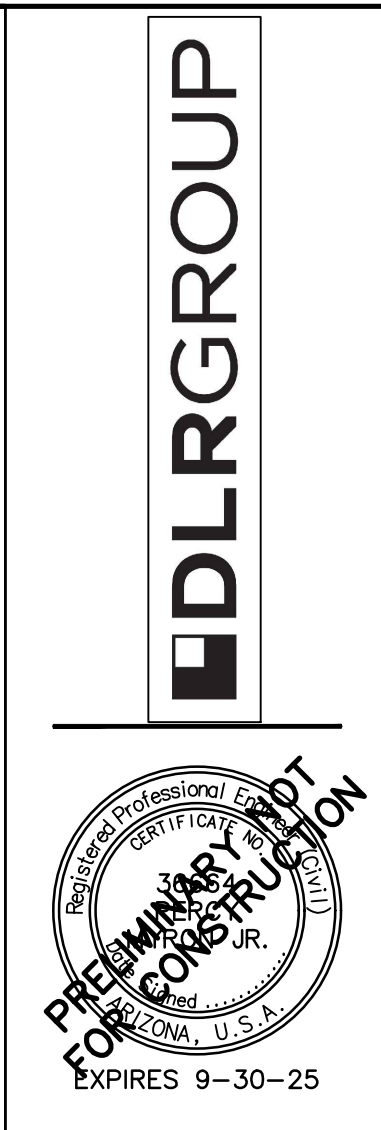
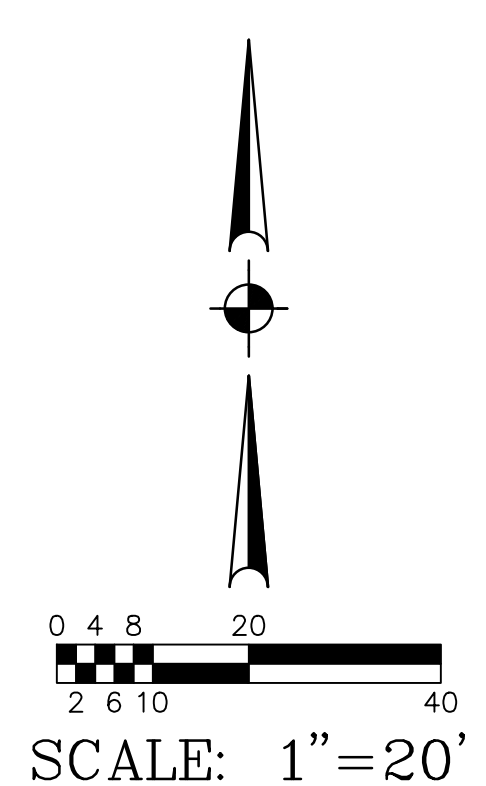


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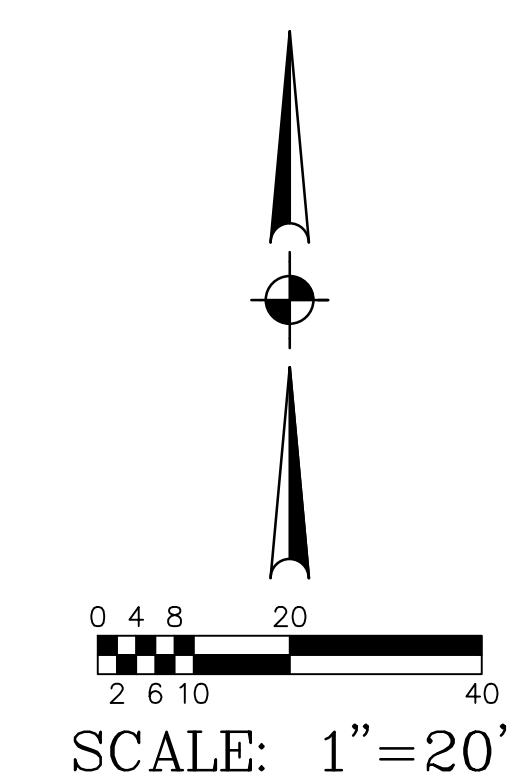
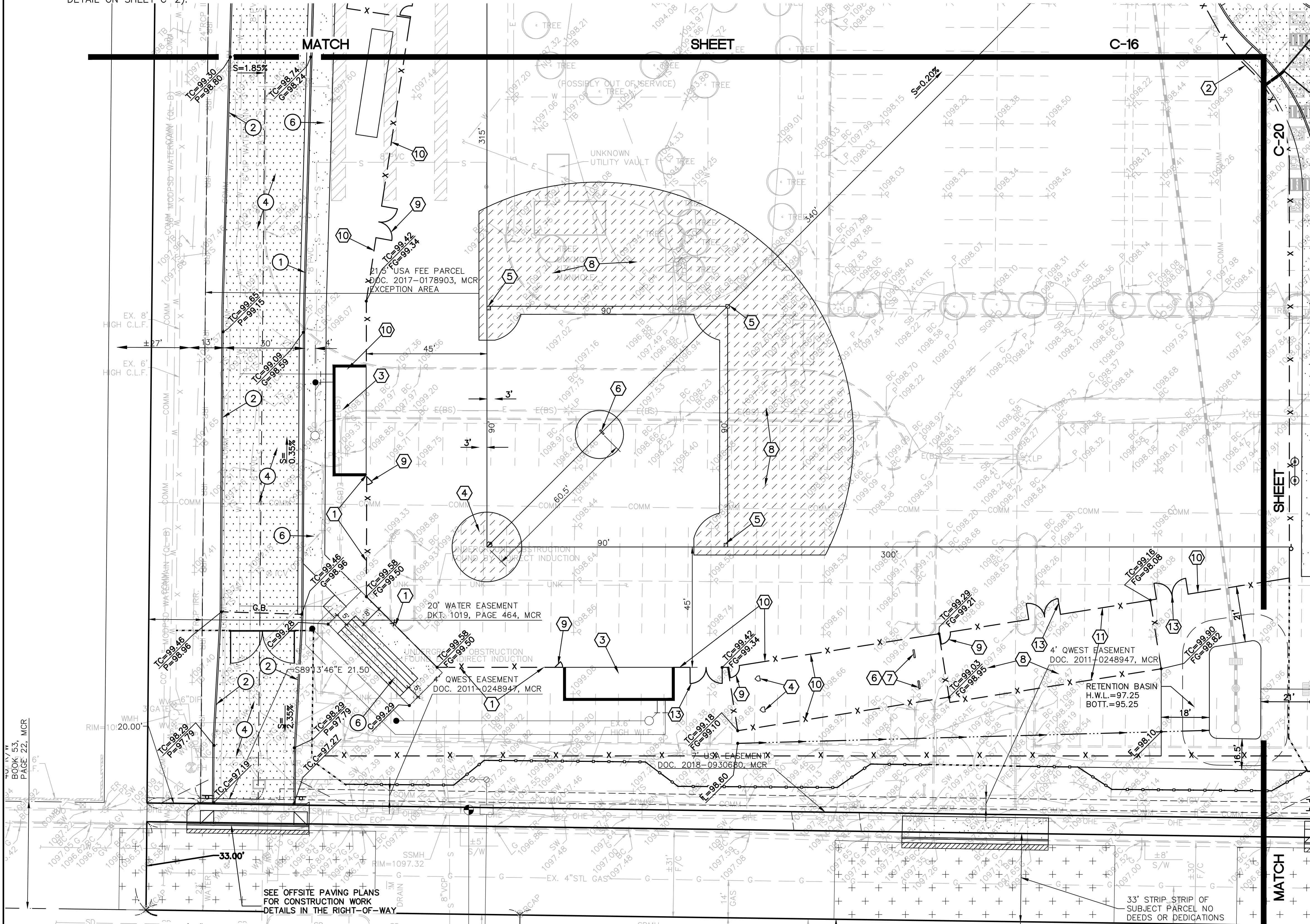
FENCING CONSTRUCTION NOTES:

- ① INSTALL 24-FOOT HIGH CHAIN LINK FENCE WITH PLASTIC BASEBOARD (SEE DETAIL ON SHEET C-2). INSTALL BASEBOARDS AROUND BACKSTOP AND STOP AT DUGOUT. INSTALL 10" WIDE BY 8" DEEP CONCRETE CURB BENEATH FENCE. TOP OF CURB TO BE 1" ABOVE FINISHED GRADE.
- ② INSTALL 6-FOOT HIGH CHAIN LINK FENCE WITH PRIVACY SLATS AND A 6" WIDE BY 8" DEEP CONCRETE CURB BENEATH FENCE. TOP OF CURB TO BE 2" ABOVE FINISHED GRADE, EXCEPT AT CONCRETE SPLASHPAD WHERE TOP OF CURB ELEVATION IS EQUAL TO THE FINISH GRADE ELEVATION.
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- ⑧ INSTALL 4" THICK INFIELD MIX. (SEE LANDSCAPE DRAWINGS).
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NOTE:
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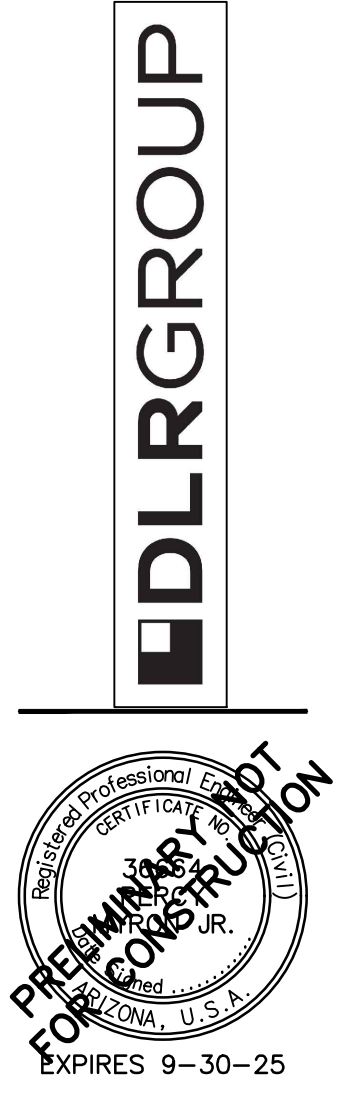
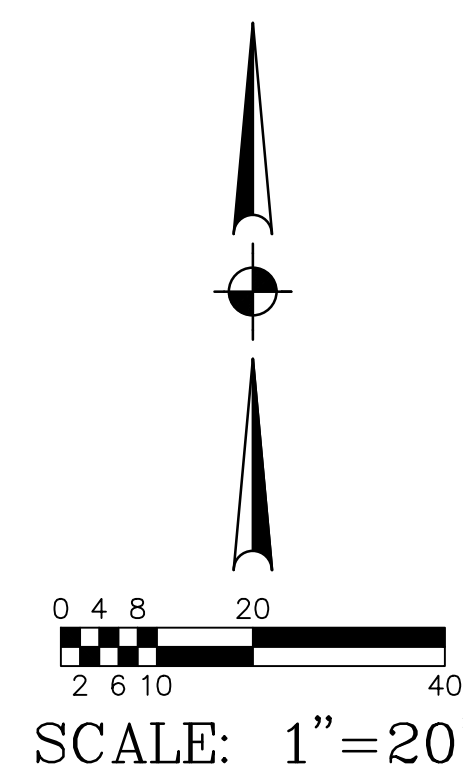
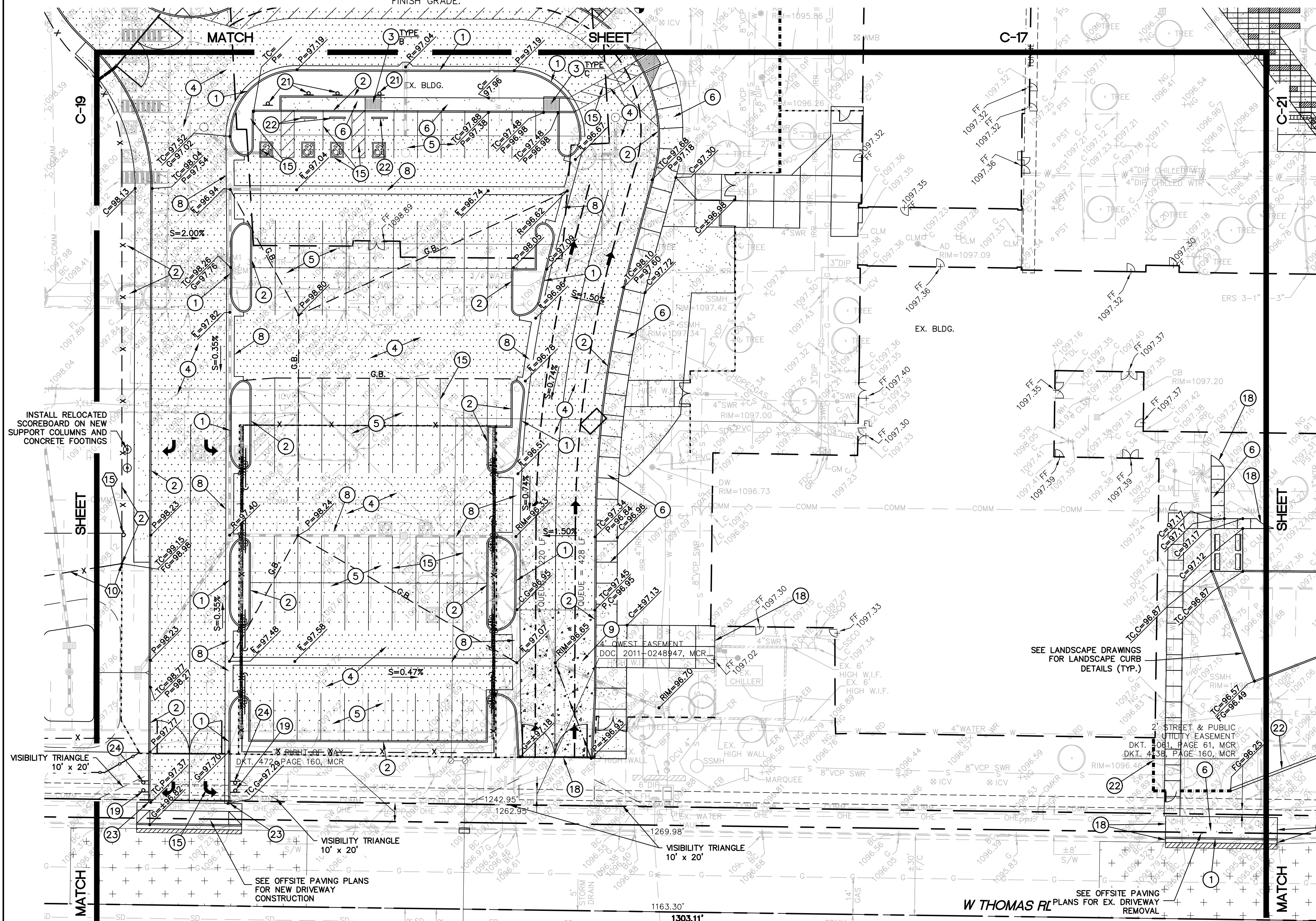
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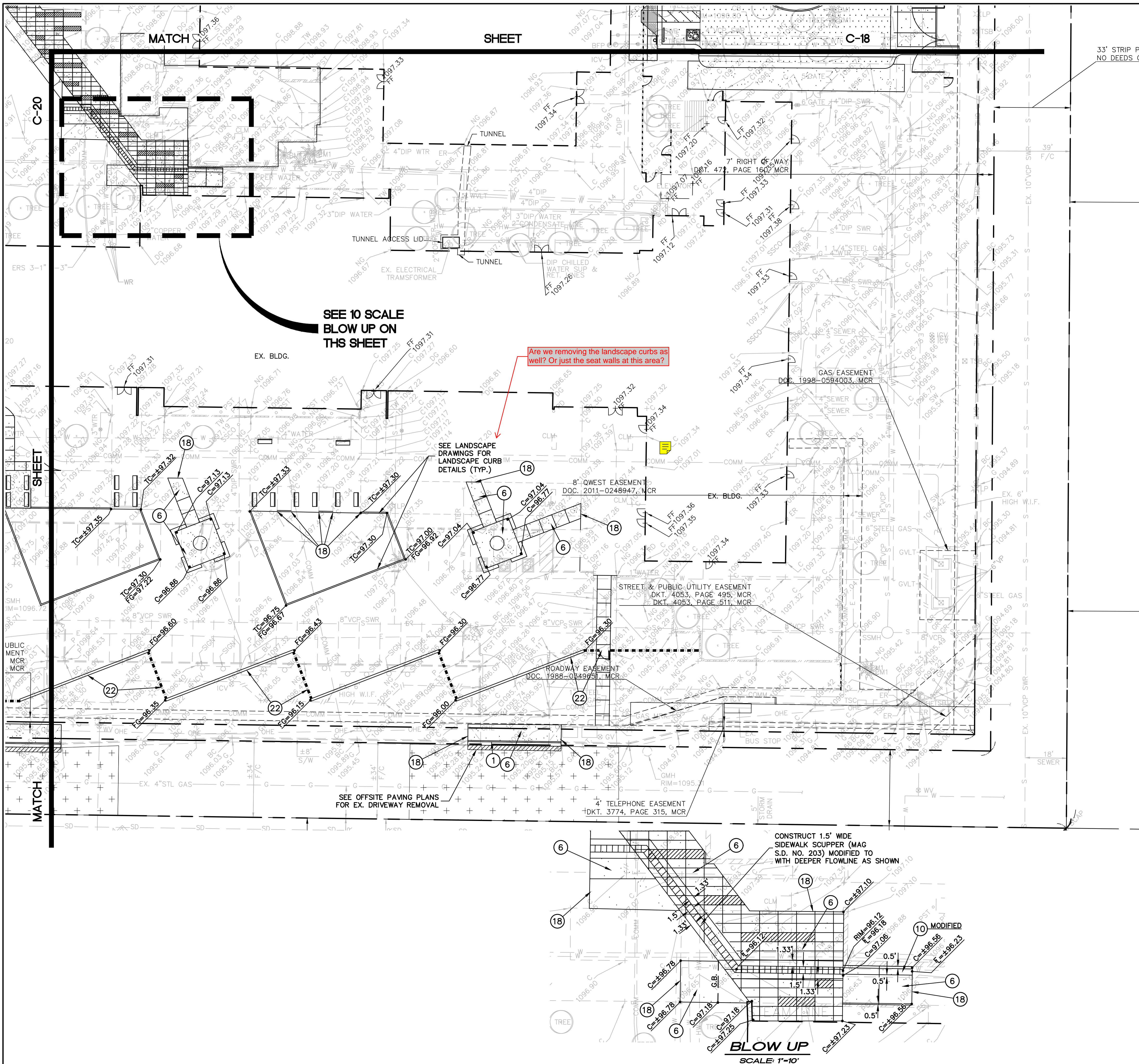
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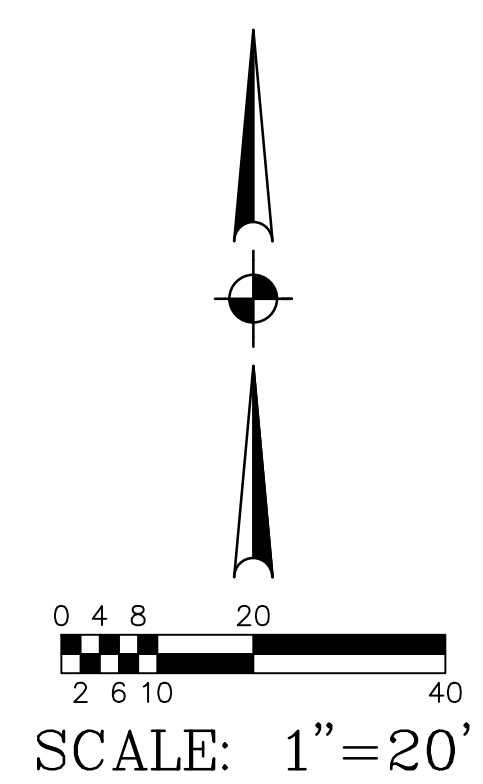
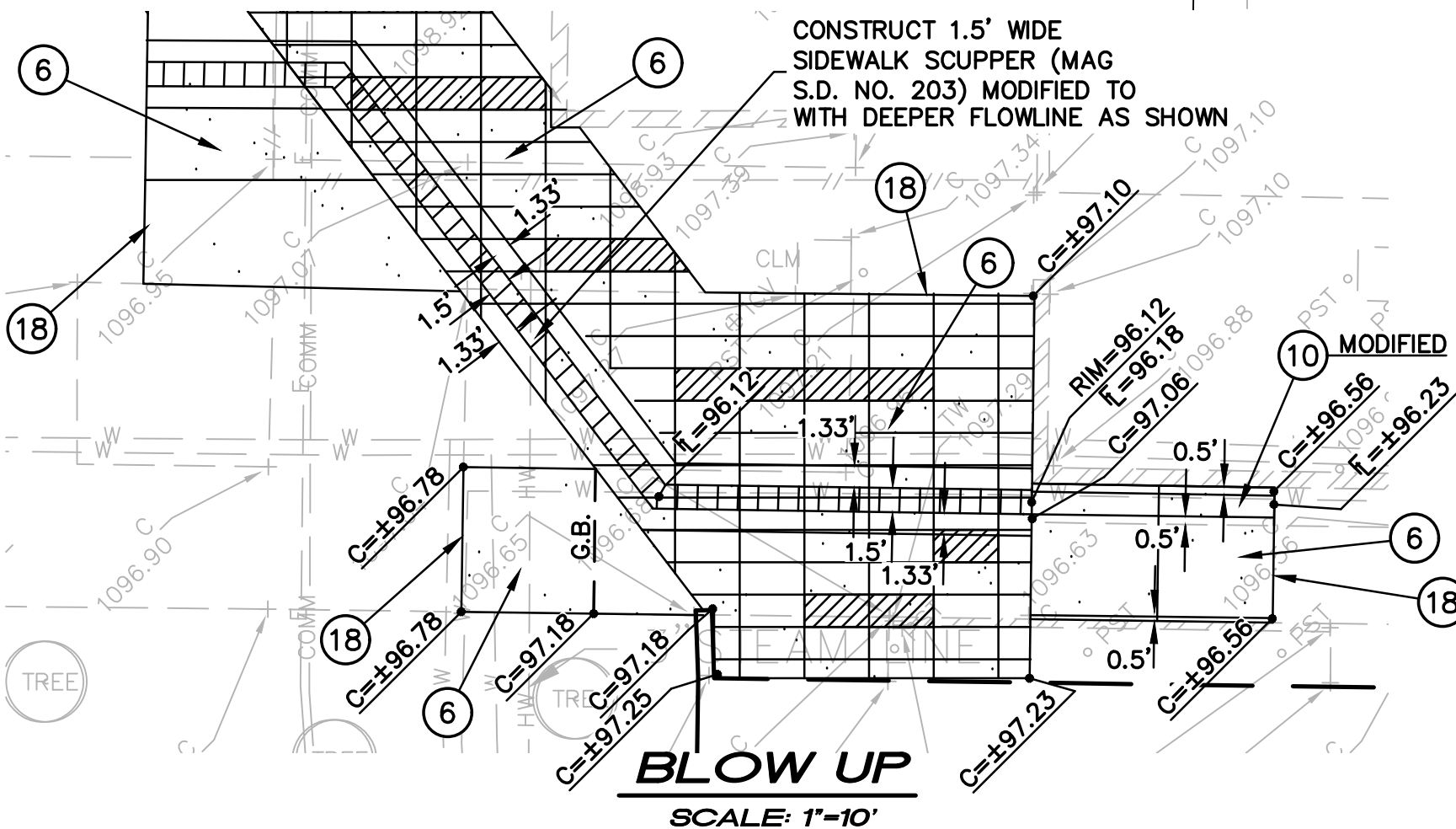
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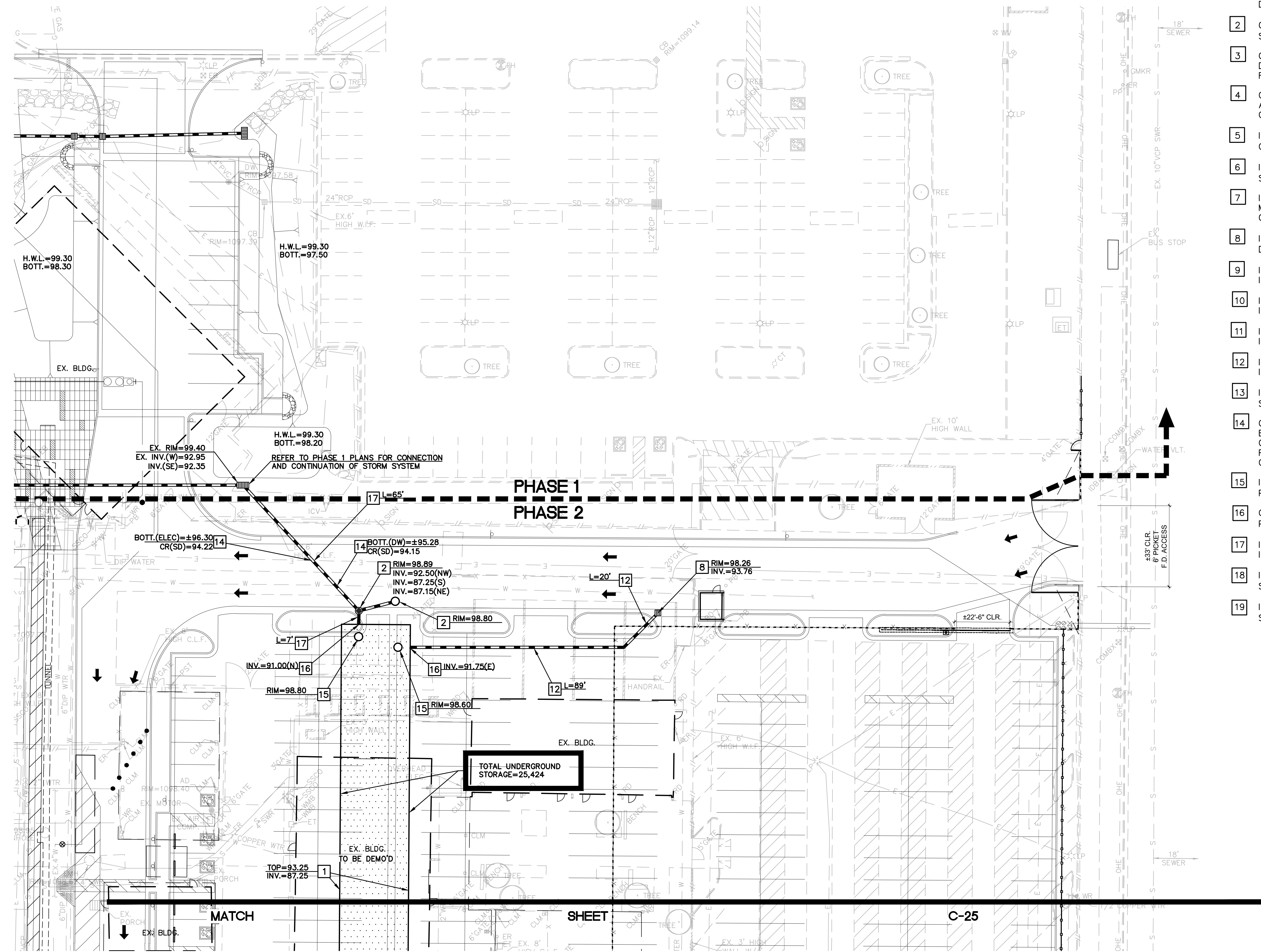




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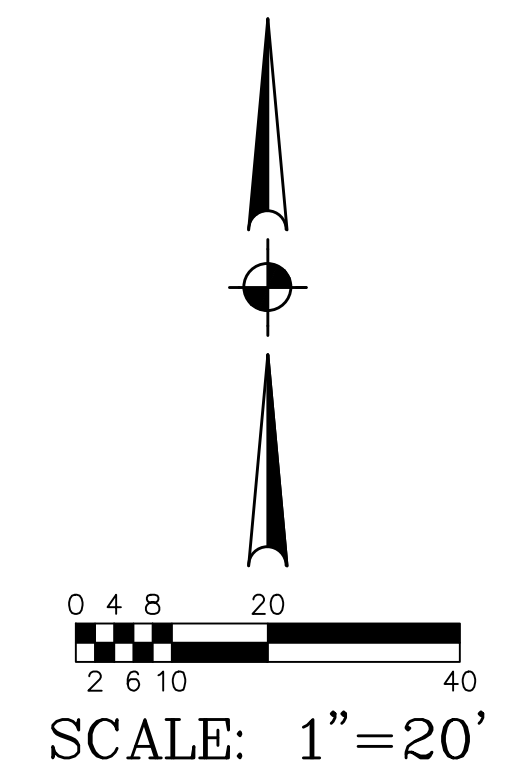
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- ⑯ INSTALL FIRE LANE SIGN PER CITY OF PHOENIX AND STATE FIRE MARSHAL'S REQUIREMENTS. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B'.
- ⑰ INSTALL 12" SIDEWALK SCUPPER (MAG STANDARD DETAIL NO. 206).
- ⑱ MATCH EXISTING GRADE.
- ⑳ INSTALL CONCRETE LANDSCAPE CURB (SEE LANDSCAPE PLANS FOR DETAILS).
- ㉑ INSTALL HANDICAP PARKING SIGN PER CITY OF PHOENIX AND ADA REQUIREMENTS. POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B'. (TOP OF SIGN SHALL BE 6" ABOVE GRADE). TYPICAL AT EACH HANDICAP SPACE.
- ㉒ INSTALL PRECAST SAFETY CURB (MAG STANDARD DETAIL NO. 150, TYPE B-3).
- ㉓ INSTALL CURB TERMINATION (MAG STANDARD DETAIL NO. 222).
- ㉔ INSTALL "DO NOT ENTER" SIGN (M.U.T.C.D. R5-1, 36" X 36", WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B' (TOP OF SIGN SHALL BE 6" ABOVE GRADE)).





STORM DRAIN CONSTRUCTION NOTES:

- 1 INSTALL STORMBRIX-900SD (HS-20 LOADING) STORMWATER RETENTION SYSTEM PER MANUFACTURER'S DETAILS (SEE SHEET C-3).
- 2 CONSTRUCT DUAL CHAMBER DRYWELL (SEE DETAIL ON SHEET C-3).
- 3 CONNECT NEW STORM DRAIN PIPE TO EXISTING STORM DRAIN MANHOLE WITH NECESSARY AND APPROPRIATE FITTINGS. ADJUST MANHOLE RIM TO FINISHED GRADE.
- 4 CONNECT TO BUILDING ROOF DRAIN LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING DRAWINGS FOR CONTINUATION.
- 5 INSTALL STORM DRAIN CLEANOUT (SEE DETAIL ON SHEET C-3).
- 6 INSTALL STORM DRAIN AREA DRAIN (SEE DETAIL ON SHEET C-3)
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- 8 INSTALL SINGLE GRATE CATCH BASIN (MAG STANDARD DETAIL 537 'G').
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- 19 INSTALL SINGLE GRATE CATCH BASIN TYPE 'H' (MAG STANDARD DETAIL 538 AND 539)



MATCH SHEET C-25

TOTAL UNDERGROUND STORAGE=25,424

DLRGROUP

Bowman
Bowman Consulting Group Ltd
1600 N. Desert Drive, Ste. 210
Tempe, Arizona 85288
Phone: (480) 629-8830
www.bowman.com

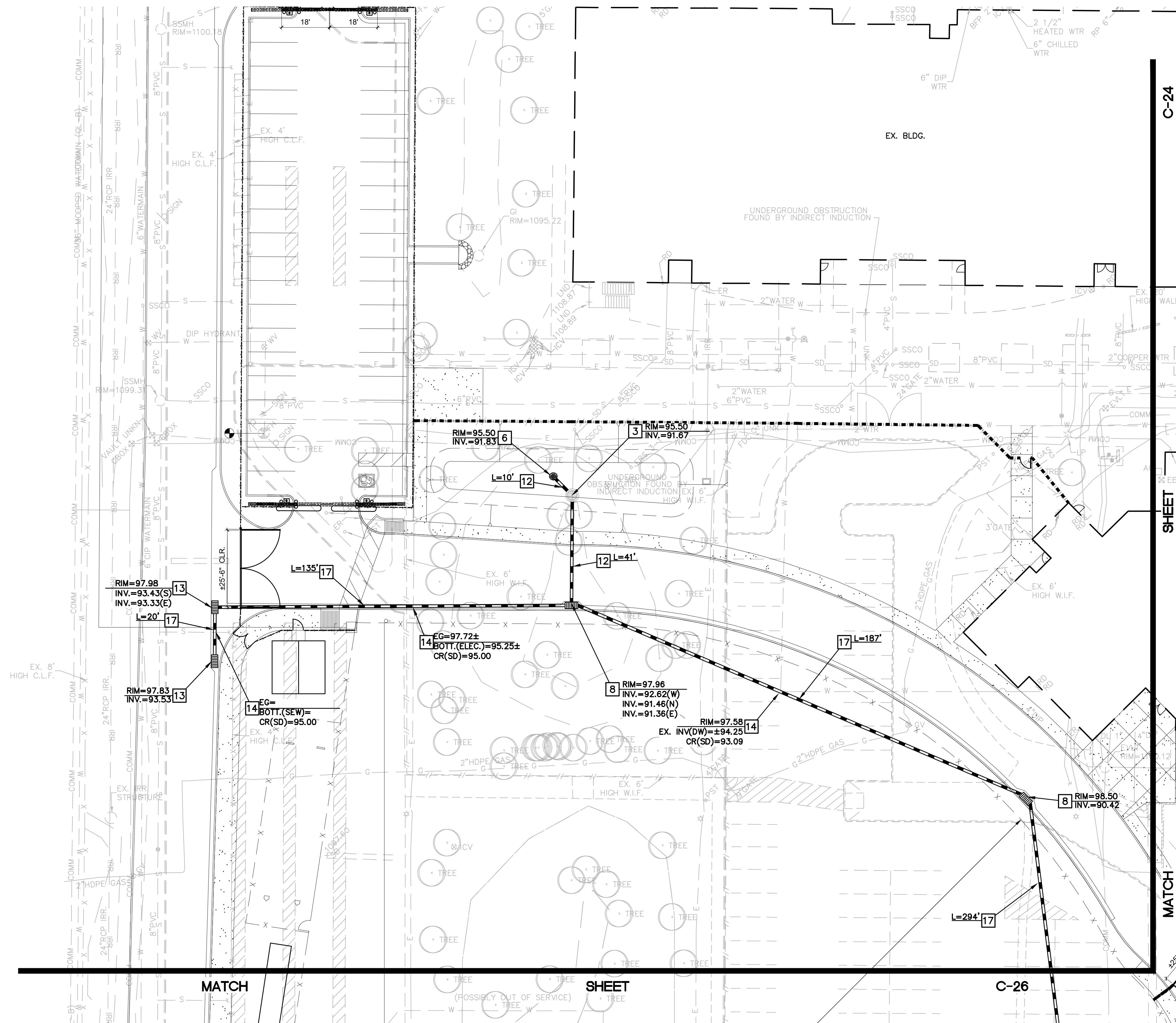
Professional Engineer
Professional Construction
EXPIRES 9-30-25

METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
05-30-25
Revisions

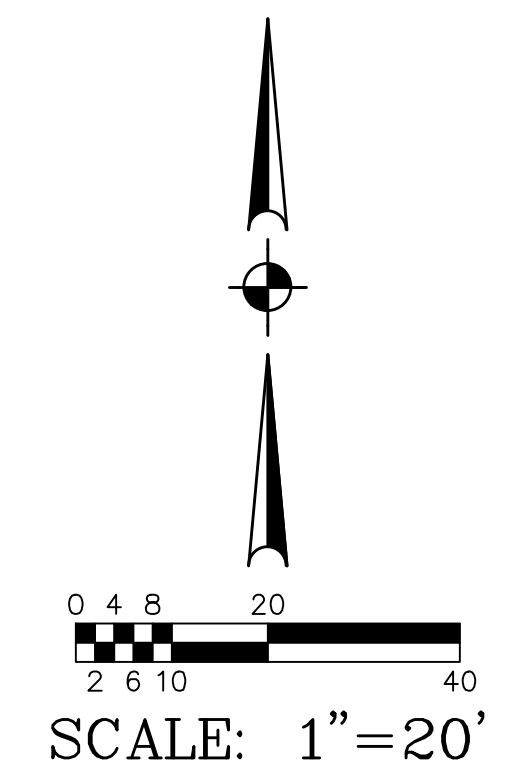
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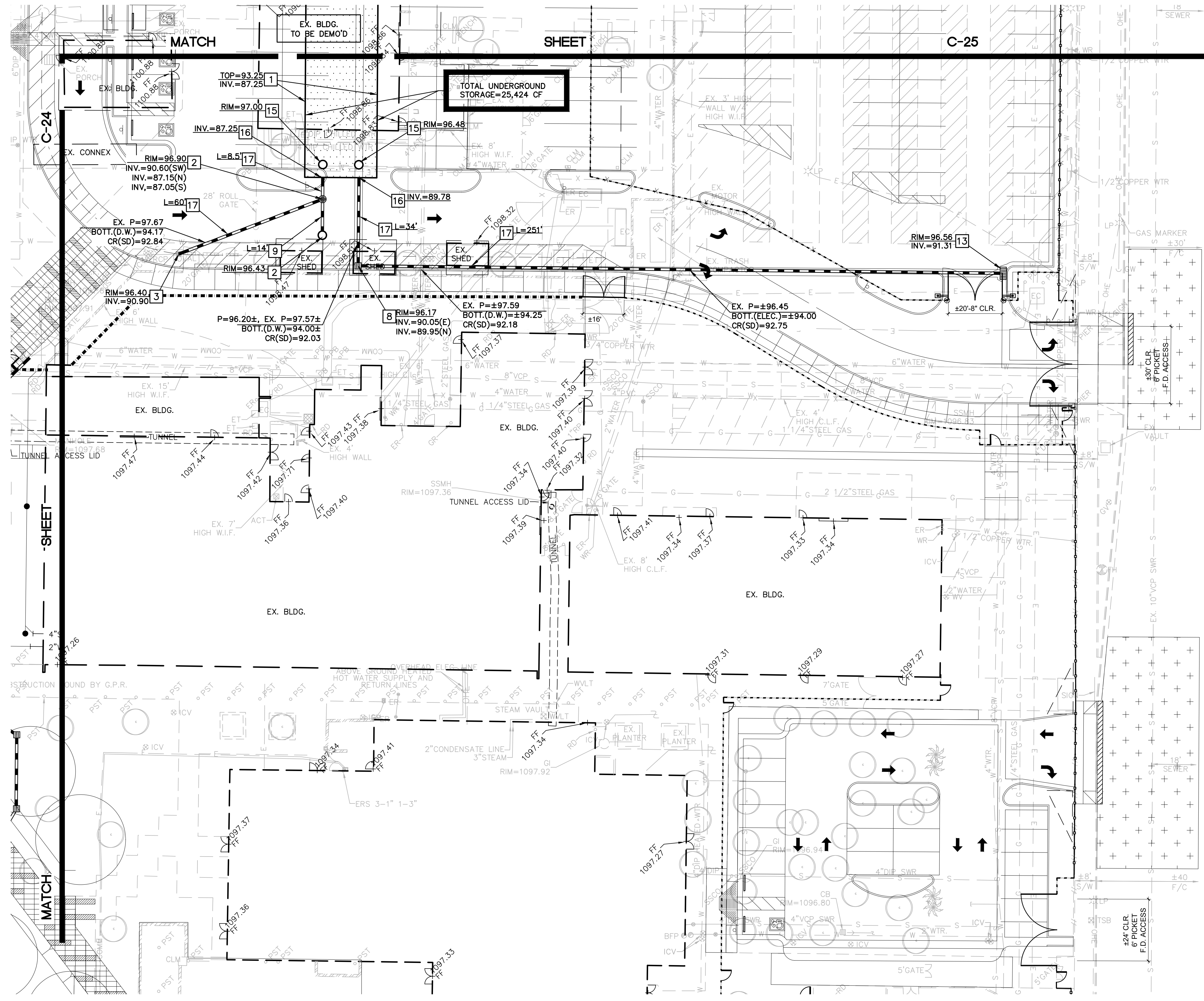




STORM DRAIN CONSTRUCTION NOTES:

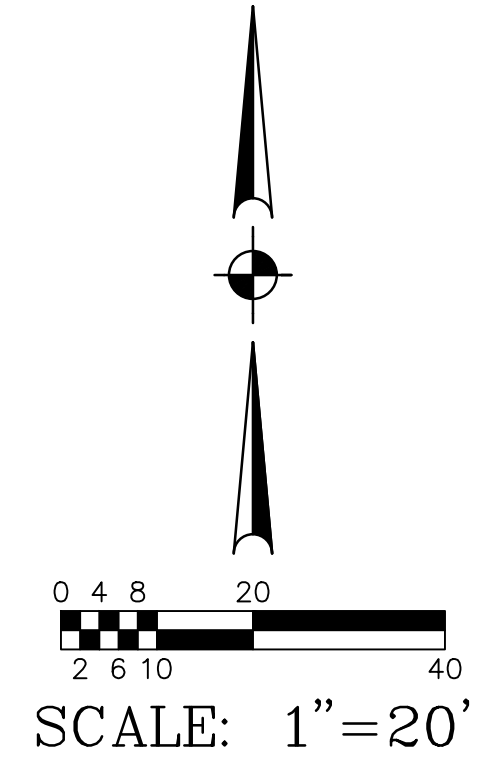
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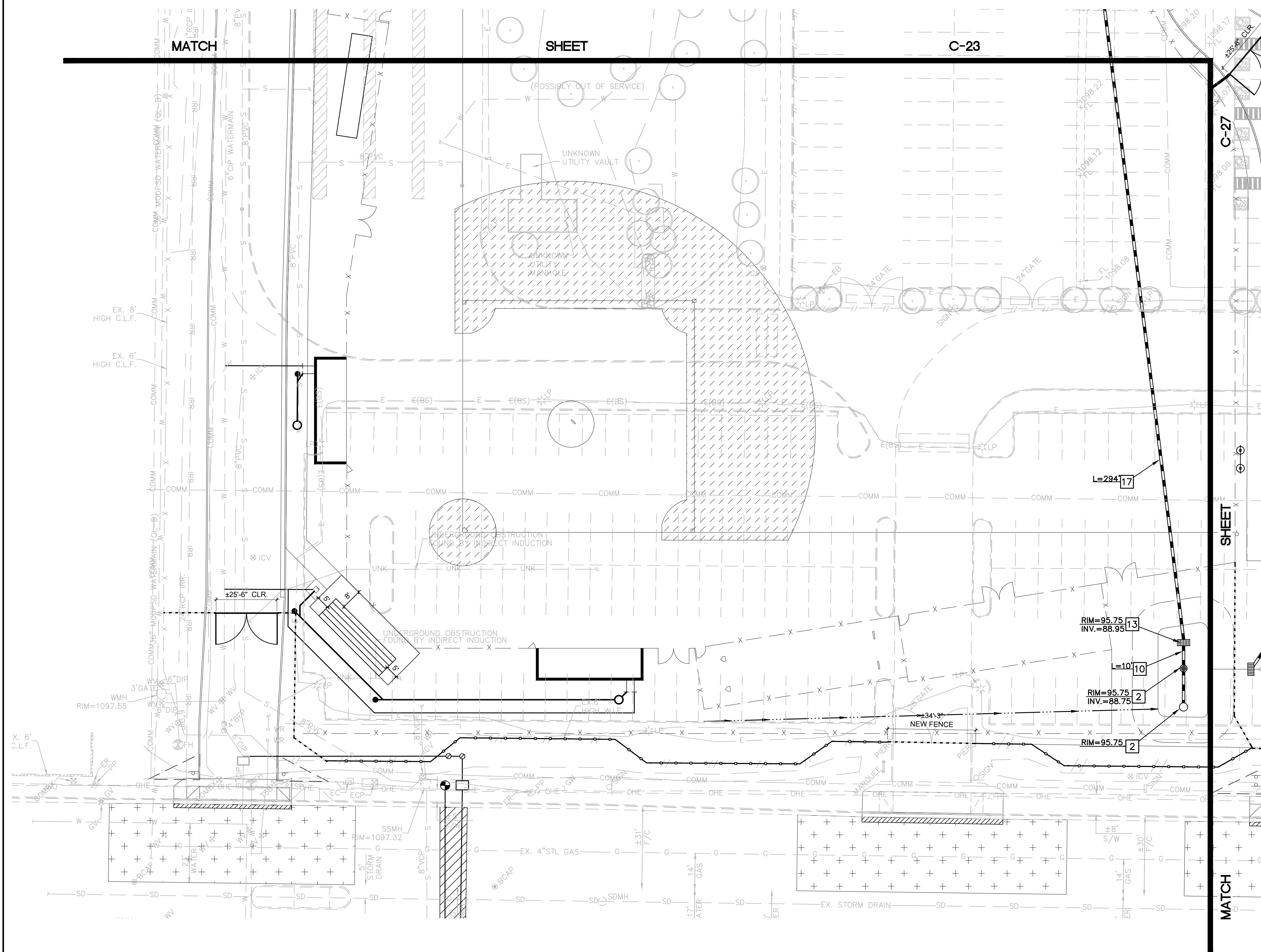




STORM DRAIN CONSTRUCTION NOTES:

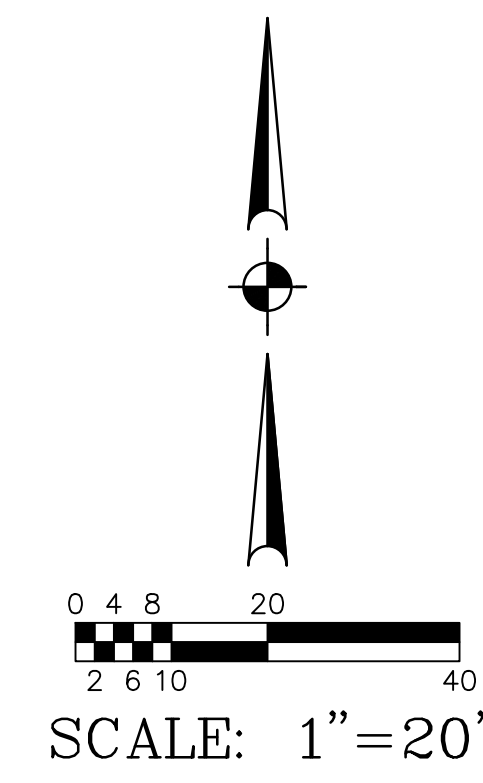
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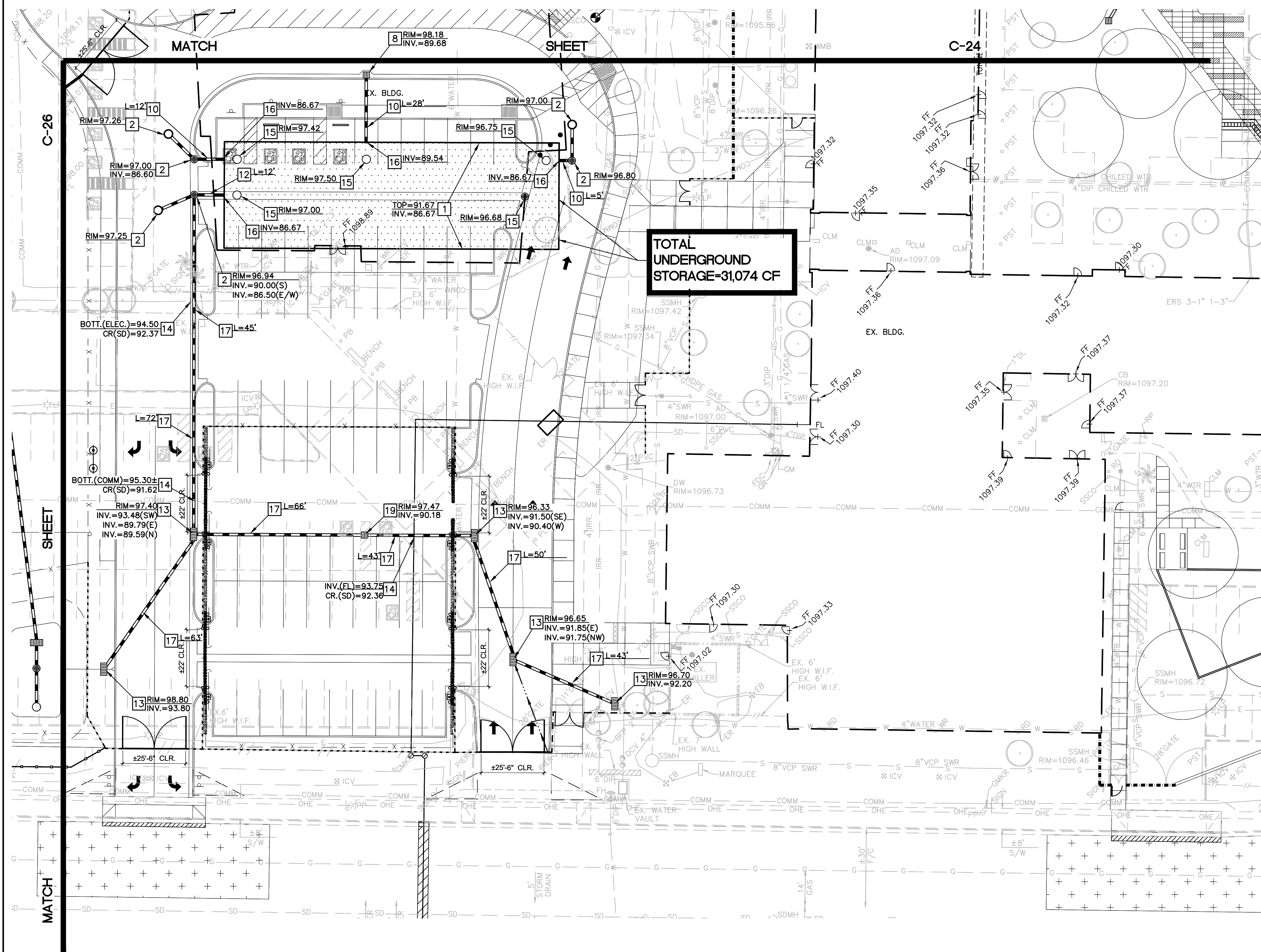




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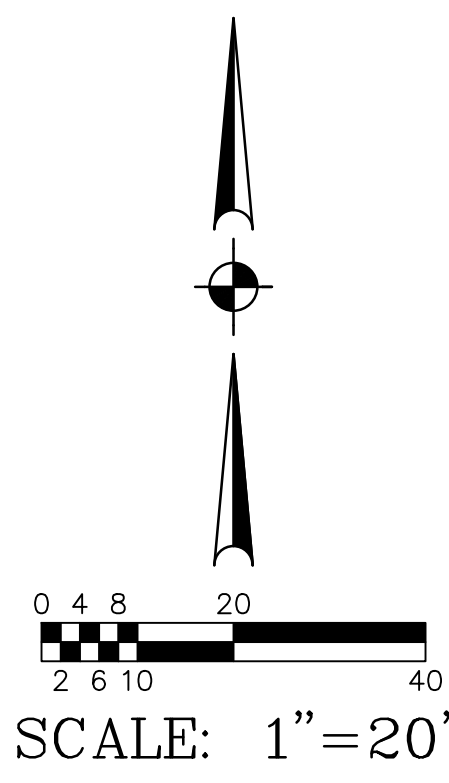
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1) PROJECT DESCRIPTION

- A. PROPOSED CONSTRUCTION ACTIVITY:
THIS PROJECT CONSISTS OF THE CONSTRUCTION OF SOME NEW SCHOOL BUILDINGS AND SITE MODIFICATIONS. THE TOTAL SITE AREA IS APPROXIMATELY 35.43 ACRES. SOIL DISTURBING ACTIVITIES WILL INCLUDE CLEARING, GRADING, TRENCHING AND BACKFILLING FOR UTILITIES, CONCRETE INSTALLATION AND LANDSCAPING.
- B. SEQUENCE OF CONSTRUCTION ACTIVITY:
THE SEQUENCE OF EVENTS IS ANTICIPATED TO BE AS FOLLOWS:
 1) CLEARING AND GRUBBING
 2) ROUGH GRADING
 3) INSTALLATION OF UTILITIES
 4) FINAL GRADING
 5) CONCRETE AND IMPROVEMENTS
 6) LANDSCAPING IMPROVEMENTS
- C. AREA OF SOIL DISTURBANCE:
SOIL: SANDY SILT/SANDY CLAY
ERODABILITY: MODERATE
IT IS ESTIMATED THAT THE TOTAL AREA OF SOIL DISTURBANCE IS APPROXIMATELY 16.25 ACRES.
- D. RUN-OFF COEFFICIENTS:
THE ESTIMATED RUN-OFF COEFFICIENTS FOR THE PROJECT ARE AS FOLLOWS:
 1) PRE-DEVELOPMENT RUN-OFF COEFFICIENT = 0.90
 2) POST-DEVELOPMENT RUN-OFF COEFFICIENT = 0.85
- E. QUALITY OF SITE STORM WATER DISCHARGE:
PRIMARY POLLUTANT: SITE SOIL
IT IS NOT ANTICIPATED THAT ANY HAZARDOUS MATERIALS WILL TYPICALLY BE CONTAINED WITHIN STORM WATER DISCHARGE. THE EXCEPTION TO THIS WOULD BE ANY FUELS OR LUBRICANTS LEAKED FROM VEHICLES OR EQUIPMENT AND ANY FERTILIZERS OR HERBICIDES USED DURING THE LANDSCAPE IMPROVEMENTS.
- F. RECEIVING BODY OF WATER:
THE ULTIMATE RECEIVING BODY OF WATER, WHICH WOULD RECEIVE ANY STORM WATER IN EXCESS OF THAT CONTAINED WITHIN THE PROPOSED AND EXISTING RETENTION BASINS, IS THE SALT RIVER.
- G. GRADING AND DRAINAGE PLAN:
THE GRADING AND DRAINAGE PLAN AS PREPARED BY BOWMAN CONSULTING, PROJECT #450336 SHALL BE CONSIDERED A PART OF THE STORMWATER MANAGEMENT PLAN, AND ALL FINAL GRADING AND IMPROVEMENTS SHALL BE IN ACCORDANCE WITH THAT PLAN.
- H. NO WATER BODIES ARE ON SITE.

2) EROSION AND SEDIMENT CONTROLS

- A. IMMEDIATELY FOLLOWING CLEARING AND GRUBBING, AND AS PART OF THE INITIAL ROUGH GRADING, ALL RETENTION BASINS SHALL BE CUT TO GRADE AND PERIMETER BERMS CONSTRUCTED. THE BASINS AND BERMS SHALL CONSTITUTE THE REQUIRED SEDIMENT BASINS. GRADES SHALL BE CUT (OR BERMING OR STRAW BALES SHALL BE PROVIDED) TO ASSURE THAT RUNOFF IS CONVEYED TO THE BASINS.
- B. ANY DISTURBED AREAS WHERE CONSTRUCTION HAS PERMANENTLY OR TEMPORARILY CEASED SHALL BE STABILIZED TO PREVENT EROSION. AN ACCEPTABLE STABILIZATION METHOD IS HYDROSEEDING. AREAS WHICH WILL BE REDISTURBED WITHIN 21 DAYS DO NOT HAVE TO BE STABILIZED.
- C. THE RETENTION BASINS WHICH ARE SIZED TO CONTAIN THE 100-YR STORM EVENT SHALL ALSO ACT AS THE REQUIRED SEDIMENT BASINS FOR THE PROJECT AND SHALL BE INSPECTED ON A MONTHLY BASIS AND AFTER EVERY HEAVY RAINFALL. NO FLOOD WATER AND THUS NO SEDIMENT CARRIED BY FLOOD WATER ESCAPES THESE BASINS. AS SUCH SEDIMENT SHALL BE REMOVED FROM THE BASINS AS NECESSARY TO MAINTAIN 100% OF THE REQUIRED CAPACITY OF THE BASIN DURING CONSTRUCTION.

3) STORMWATER MANAGEMENT CONTROL

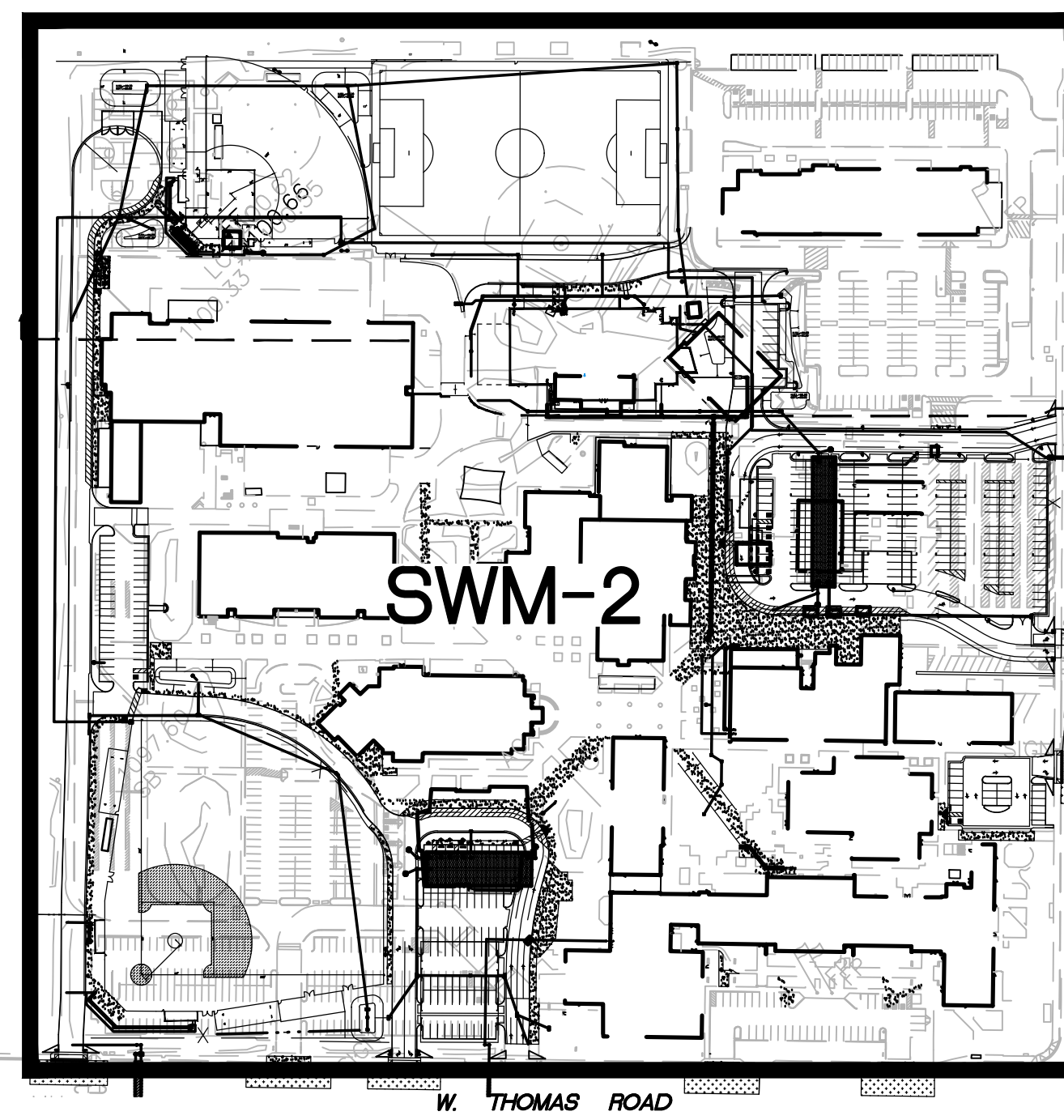
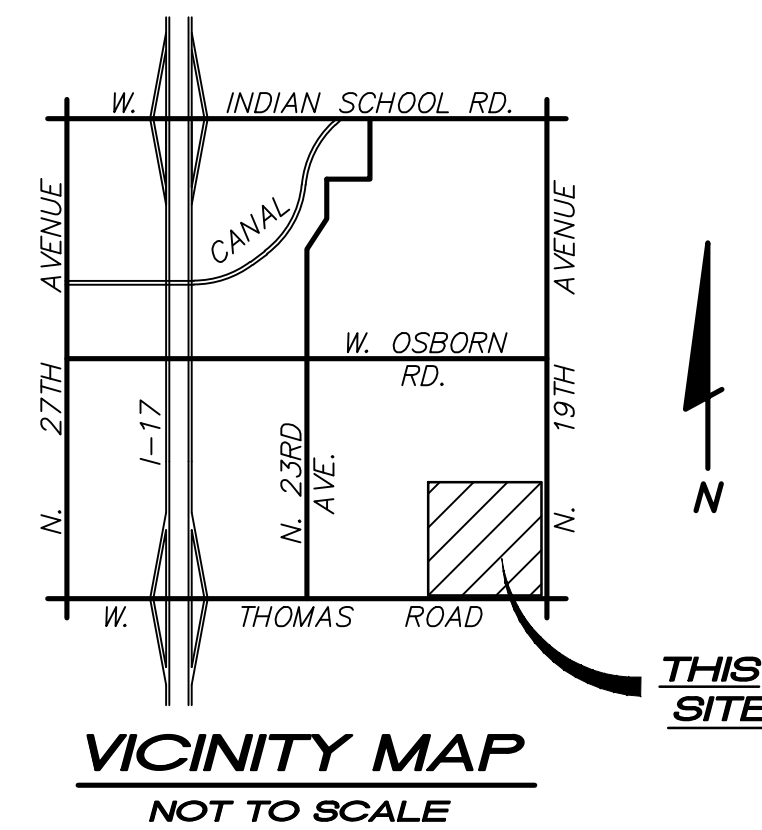
- A. THE CONTRACTOR, TOGETHER WITH THE OWNER AS COPERMITTEES, SHALL SUBMIT A NOTICE OF INTENT AT LEAST TWO (2) DAYS PRIOR TO THE COMMENCEMENT OF CONSTRUCTION ACTIVITIES TO THE EPA.
- B. THE CONTRACTOR SHALL OBTAIN A DUST CONTROL PERMIT FROM THE MARICOPA COUNTY HEALTH DEPARTMENT AND SHALL WATER THE SITE AT AN ADEQUATE FREQUENCY TO MINIMIZE AIRBORNE PARTICLES.
- C. THE CONTRACTOR SHALL MAINTAIN A COPY OF THE STORMWATER POLLUTION PREVENTION PLAN AND ALL RECORDS AT THE CONSTRUCTION SITE.
- D. THE CONTRACTOR SHALL INSPECT THE CONSTRUCTION SITE AT LEAST ONCE EVERY SEVEN (7) DAYS AND WITHIN TWENTY-FOUR (24) HOURS OF A RAINFALL OF 0.5" OR MORE. THE CONTRACTOR SHALL PREPARE A REPORT DOCUMENTING THEIR FINDINGS ON THE CONDITIONS OF THE CONTROLS AND ANY STABILIZED AREAS. THE CONTRACTOR SHALL MODIFY THE STORMWATER POLLUTION PREVENTION PLAN AS NECESSARY TO CORRECT ANY OBSERVED SEDIMENT OR EROSION PROBLEMS.
- E. PERMANENT LANDSCAPING AND PLACEMENT OF FINAL COVER MATERIALS SHALL OCCUR AS SOON AS PRACTICAL AFTER COMPLETION OF GRADING.
- F. THE CONTRACTOR, TOGETHER WITH THE OWNER, SHALL FILE A NOTICE OF TERMINATION WITH THE EPA AFTER COMPLETION OF ALL CONSTRUCTION AND LANDSCAPING ACTIVITIES.
- G. THE TERMS & CONDITION OF THIS PERMIT WILL BE MET.

STORM WATER MANAGEMENT PLAN FOR METRO TECH HIGH SCHOOL

SITE ADDRESS: 1900 W. THOMAS ROAD
PHOENIX, AZ 85015

FOR PHOENIX UNION HIGH SCHOOL DISTRICT

4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100



SEE SHEET SW-2 FOR LEGEND

ENGINEER:

HESS-ROUNTREE, INC.
9831 SOUTH 51ST STREET,
SUITE C110
PHOENIX, ARIZONA 85044
PHONE: (480) 496-0244
FAX: (480) 496-0094
CONTACT: DOUG OSBORN, P.E.

OWNER/DEVELOPER:

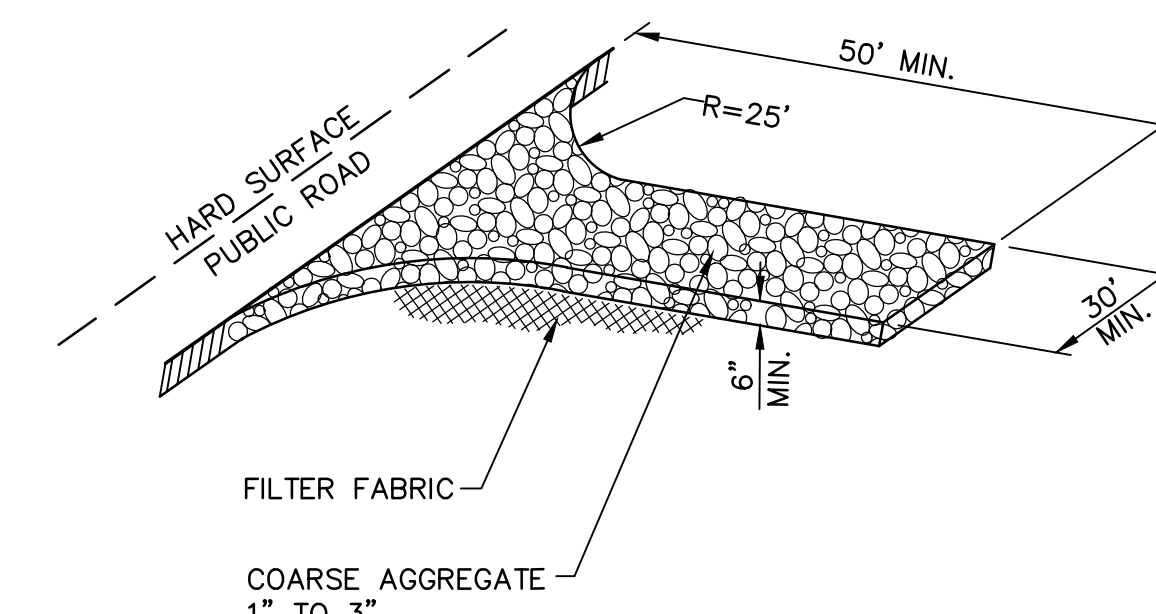
PHOENIX UNION HIGH SCHOOL DISTRICT
4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100

SHEET INDEX:

SWM-1 STORM WATER MANAGEMENT PLANS - COVER SHEET
SWM-1 STORM WATER MANAGEMENT PLAN

SITE INFORMATION:

APN: 110-34-001B
NET ACRES: 35.43 ACRES
DISTURBED ACRES: 16.25 ACRES



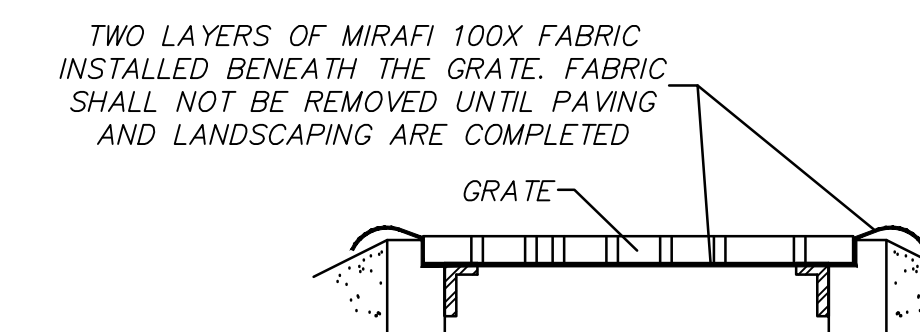
BENCH MARK:

TOP MARICOPA COUNTY ENGINEERING DEPARTMENT BRASS IN HAND HOLE AT THE INTERSECTION OF 55TH AVE. AND LOWER BUCKEYE ROAD.

ELEVATION = 1024.923 (CITY OF PHOENIX DATUM)
(NGVD 29)

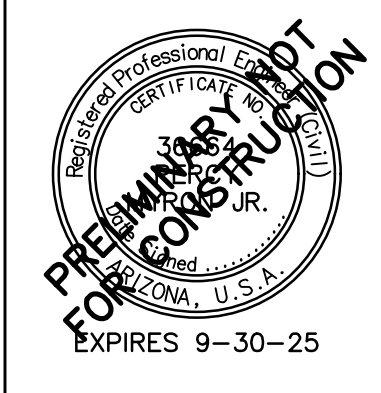
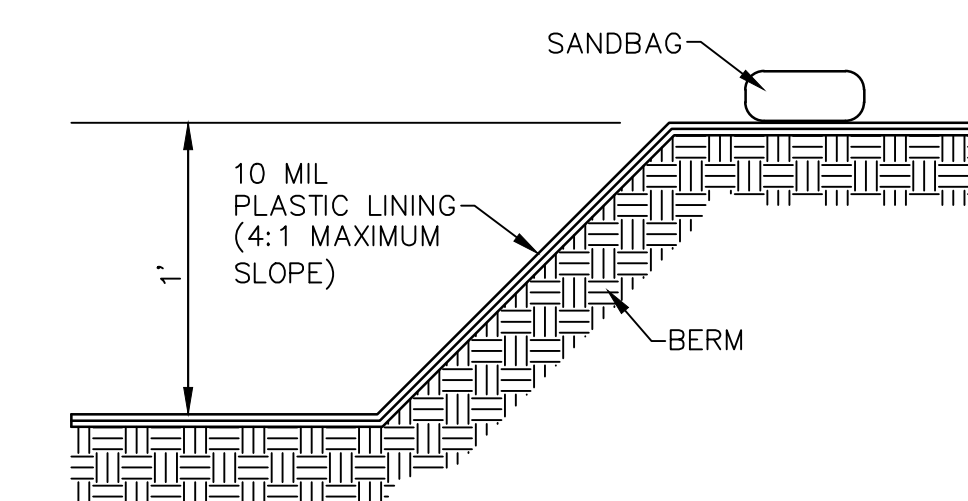
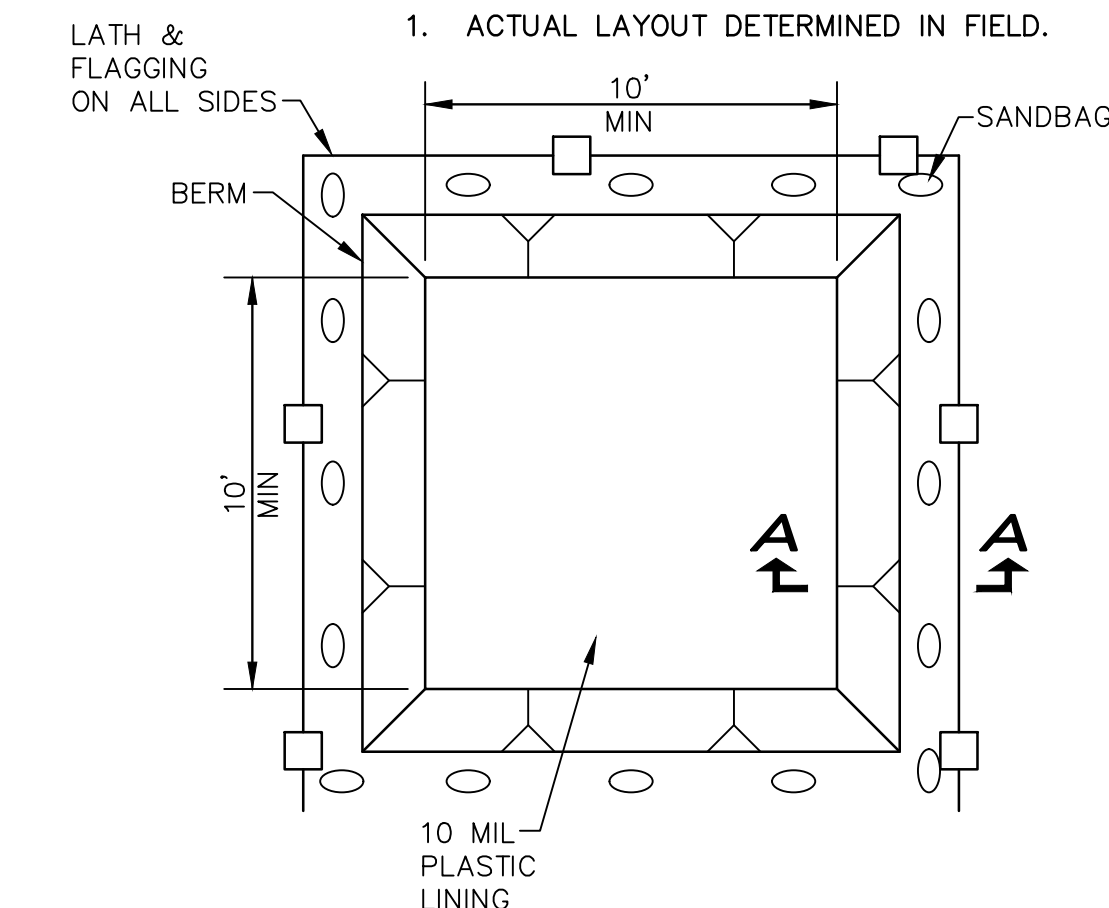
NOTE:

ALL BUBBLER BOXES, AREA DRAINS, CATCH BASINS, TRENCH DRAINS, ETC. SHALL HAVE TWO LAYERS OF MIRAFI 100X FABRIC INSTALLED BENEATH THE GRATE. FABRIC SHALL NOT BE REMOVED UNTIL PAVING AND LANDSCAPING ARE COMPLETE.



NOTE:

1. ACTUAL LAYOUT DETERMINED IN FIELD.



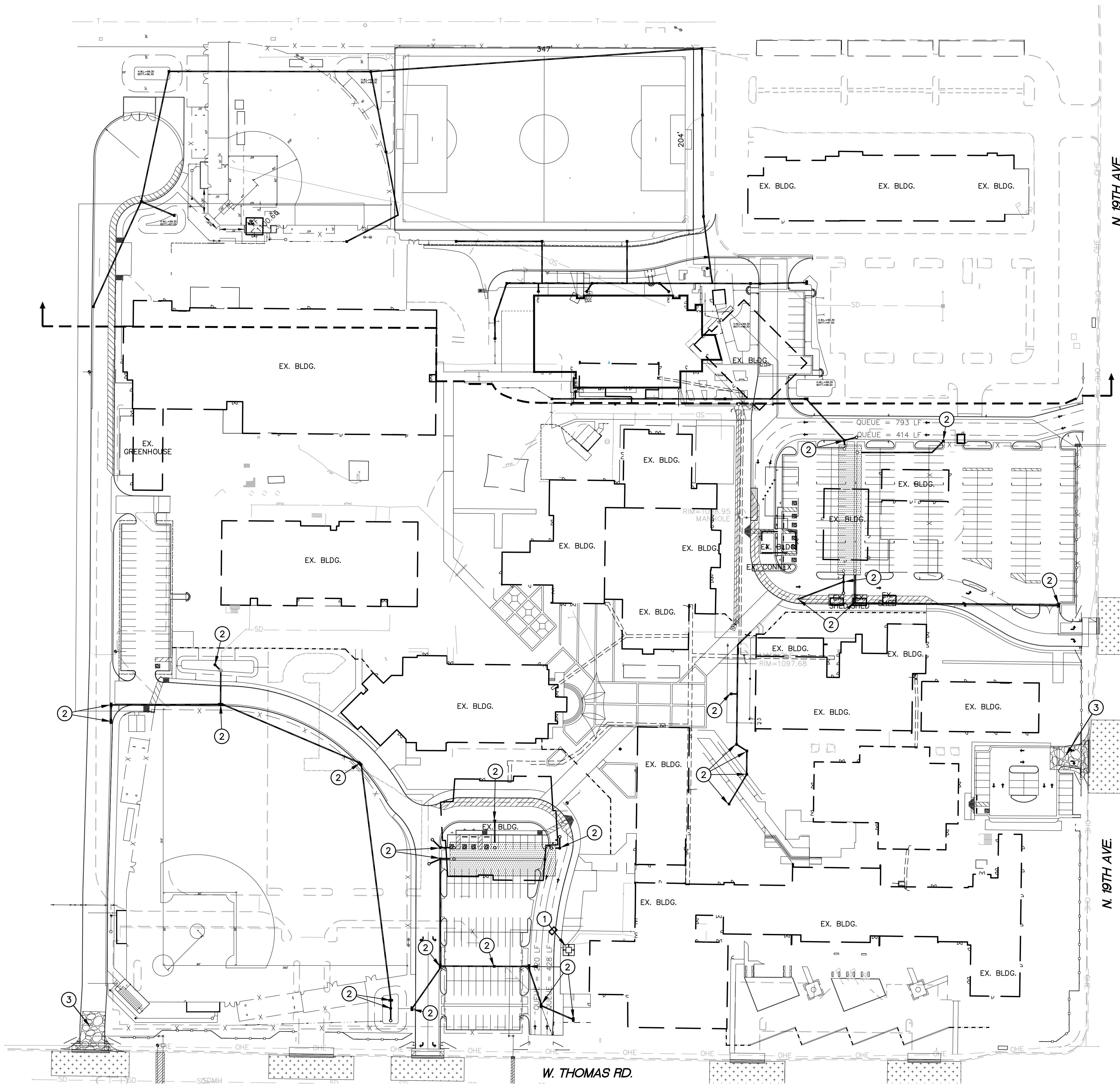
METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
05-30-25
Revisions





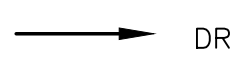
450336B
STORM WATER MANAGEMENT PLAN - COVER SHEET
1 OF 2
SWM-1



450336 - SWM-1.dwg



LEGEND:

-  PROPOSED CATCH BASIN
-  PROPOSED AREA DRAIN
-  CONCRETE WASHOUT
-  STABILIZED CONSTRUCTION ENTRANCE
-  DRAINAGE DIRECTION

CONSTRUCTION NOTES:

- 1 INSTALL CONCRETE WASHOUT (GH-4). SEE DETAIL ON SHEET SWM-1.
- 2 INSTALL MIRAFI FABRIC INLET PROTECTION (BMP-69). SEE DETAIL ON SHEET SWM-1.
- 3 INSTALL STABILIZED CONSTRUCTION ENTRANCES ONLY (BMP-37). SEE DETAIL ON SHEET SWM-1.

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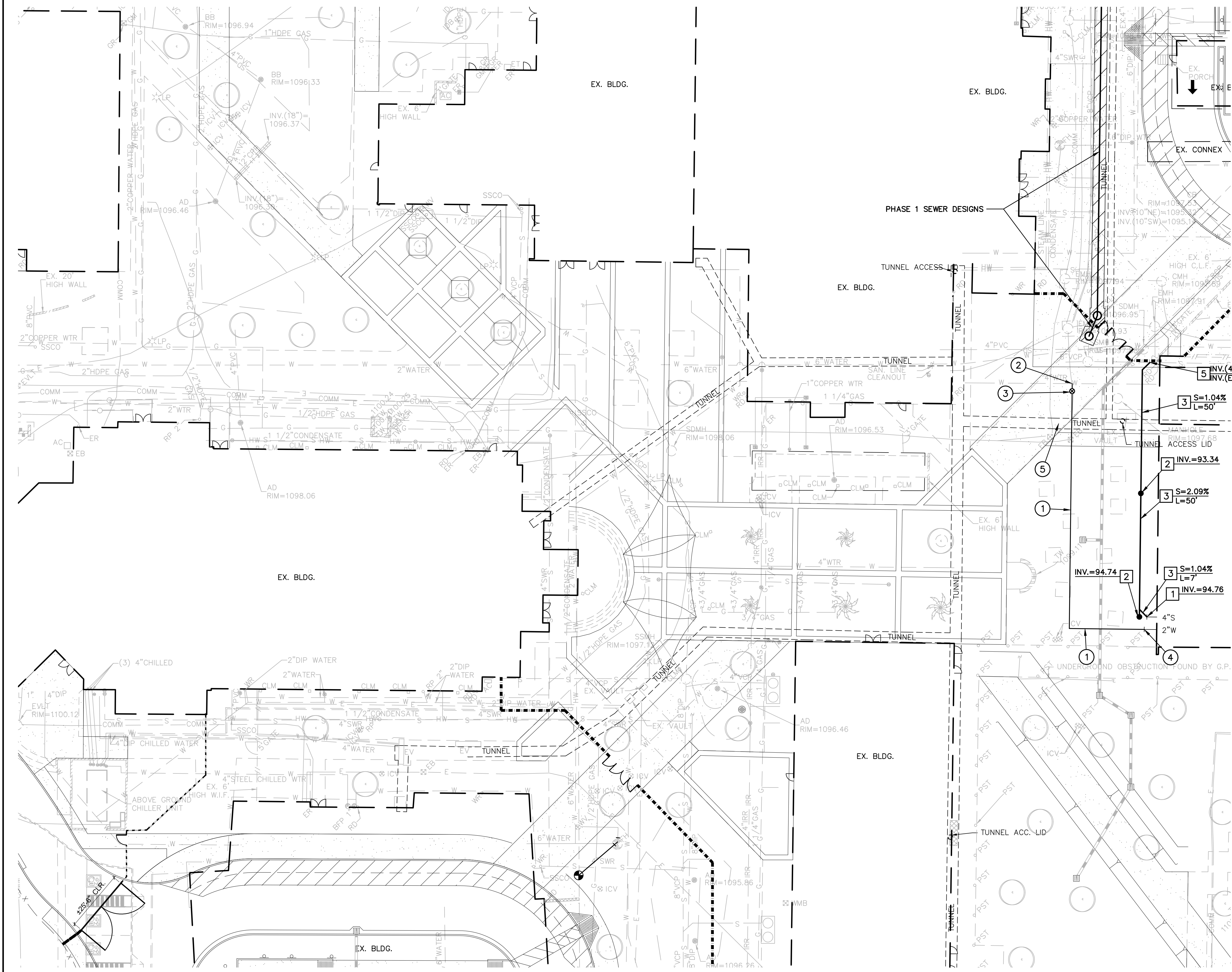
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05-30-25
Revisions

450336B
STORM WATER MANAGEMENT PLAN

2 OF 2
SWM-2



450336B - SWM2.dwg



**PRIVATE DOMESTIC WATER LINE
CONSTRUCTION NOTES:**

- 1 INSTALL 4" P.V.C. WATER LINE (RING TITE CLASS 200) WITH CAST IRON BENDS, TEES, FITTINGS AND CONCRETE THRUST BLOCKS.
- 2 CONNECT TO EXISTING 4" WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY ELEVATION, SIZE AND LOCATION PRIOR TO CONSTRUCTION.
- 3 INSTALL 4" GATE VALVE WITH VALVE BOX AND COVER (CITY OF PHOENIX STANDARD DETAIL NO. P1391-1).
- 4 CONNECT TO BUILDING DOMESTIC WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 5 EXISTING UTILITY TUNNEL TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL FIELD VERIFY ELEVATION, AND LOCATION PRIOR TO CONSTRUCTION.
- 6 INSTALL 1" P.V.C. (SCHEDULE 40 WITH SOLVENT WELDED JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS, TEES, FITTINGS AND THRUST BLOCKS.
- 7 INSTALL 1" GATE VALVE WITH VALVE BOX AND COVER (CITY OF PHOENIX STANDARD DETAIL NO. P1391-1).
- 8 INSTALL 2"x2" TEE WITH A 2" TO 1" REDUCER.
- 9 INSTALL 2" P.V.C. (SCHEDULE 40 WITH SOLVENT WELDED JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS, TEES, FITTINGS AND THRUST BLOCKS.
- 10 CONNECT TO EXISTING 2" WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY ELEVATION, SIZE AND LOCATION PRIOR TO CONSTRUCTION.
- 11 CONNECT TO EXISTING 6" WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS.
- 12 INSTALL 6" P.V.C. WATER LINE (RING TITE CLASS 200) WITH CAST IRON BENDS, TEES, FITTINGS AND CONCRETE THRUST BLOCKS.
- 13 INSTALL 6" WATER METER VAULT (CITY OF PHOENIX SUPPLEMENT TO MAG DETAIL P1320)
- 14 INSTALL 6" DOUBLE CHECK BACKFLOW PREVENTER ASSEMBLY (CITY OF PHOENIX SUPPLEMENT TO MAG DETAIL P1352)

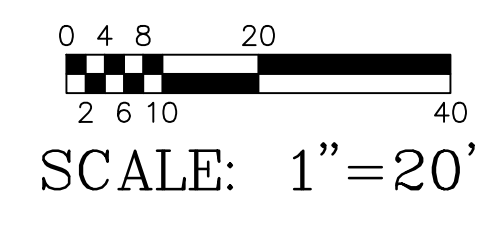
**PRIVATE SANITARY SEWER
CONSTRUCTION NOTES:**

- 1 CONNECT TO BUILDING SEWER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE BUILDING PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 2 INSTALL SANITARY SEWER CLEANOUT (SEE DETAIL ON SHEET WS-1).
- 3 INSTALL 4" P.V.C. (ASTM D3034, SDR-35) SEWER LINE.
- 4 CONNECT TO EXISTING SEWER LINE WITH NECESSARY AND APPROPRIATE FITTINGS.
- 5 EXISTING UTILITY TUNNEL TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IF THERE ARE ANY CONFLICTS WITH INSTALLATION OF SEWER LINE.
- 6 CONNECT TO DRINKING FOUNTAIN WITH NECESSARY AND APPROPRIATE FITTINGS
- 7 CONSTRUCT DRINKING FOUNTAIN (SEE DETAIL ON SHEET WS-3)

UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF PHOENIX AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.

NOTE:
ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.



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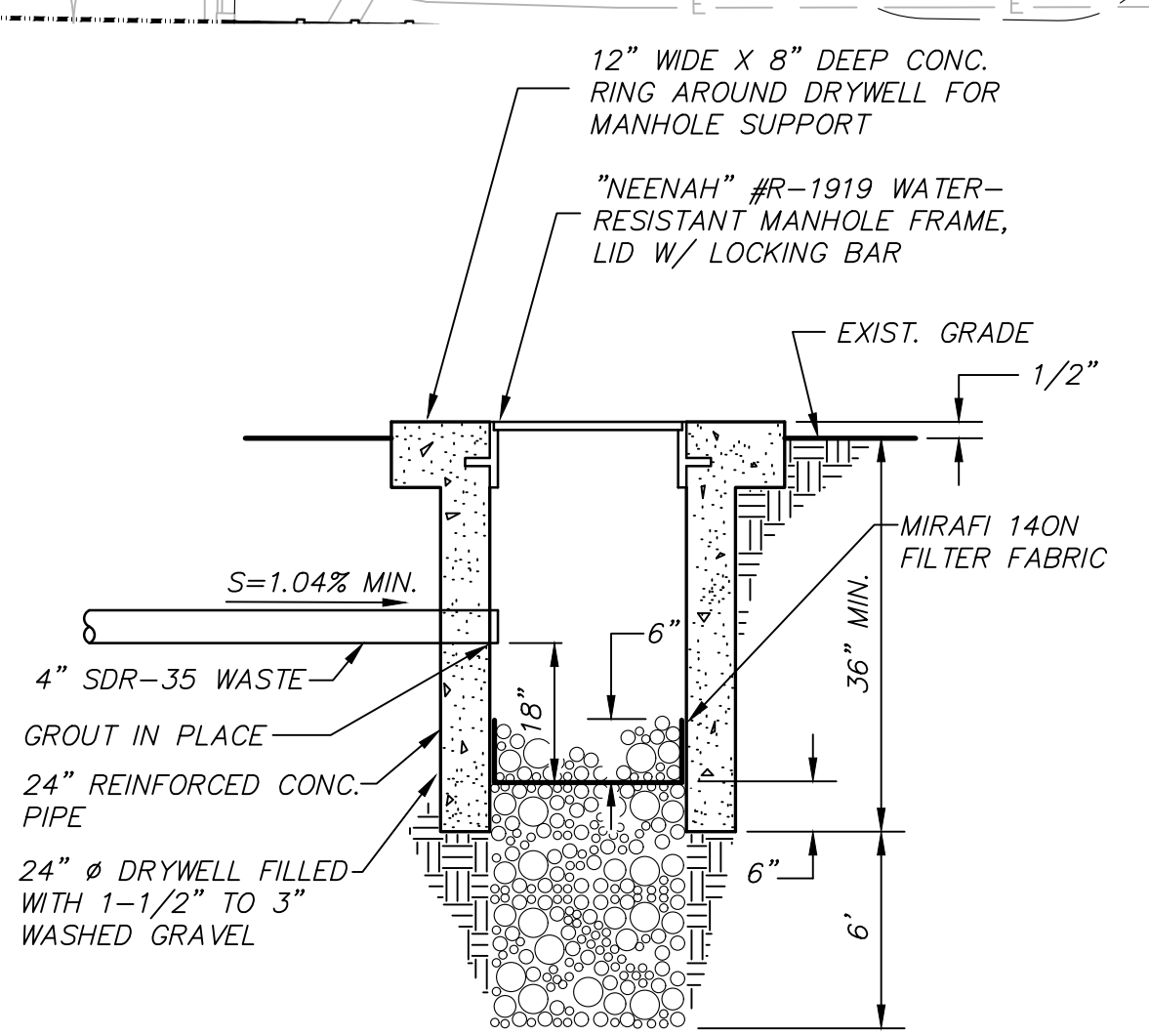
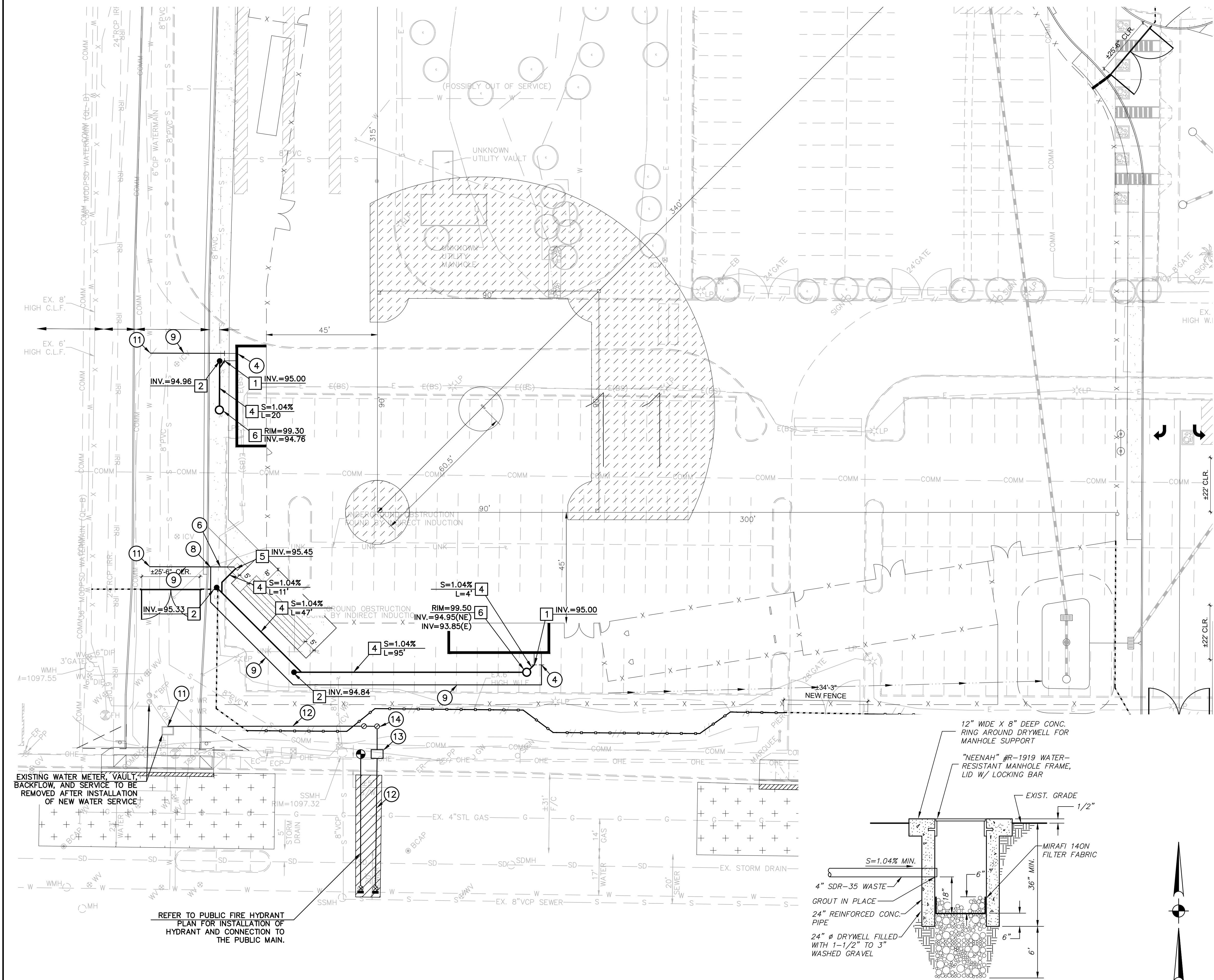
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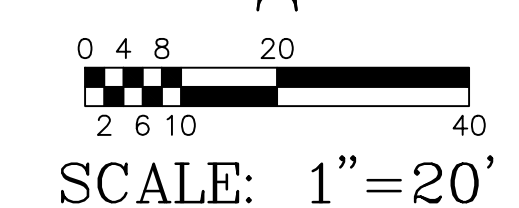
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05-30-25
Revisions

4503366 - WS-1

1 OF 2
WS-1



DRINKING FOUNTAIN DRAIN
NOT TO SCALE



**PRIVATE DOMESTIC WATER LINE
CONSTRUCTION NOTES:**

- 1 INSTALL 4" P.V.C. WATER LINE (RING TITE CLASS 200) WITH CAST IRON BENDS, TEES, FITTINGS AND CONCRETE THRUST BLOCKS.
- 2 CONNECT TO EXISTING 4" WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. FIELD VERIFY ELEVATION, SIZE AND LOCATION PRIOR TO CONSTRUCTION.
- 3 INSTALL 4" GATE VALVE WITH VALVE BOX AND COVER (CITY OF PHOENIX STANDARD DETAIL NO. P1391-1).
- 4 CONNECT TO BUILDING DOMESTIC WATER LINE WITH NECESSARY AND APPROPRIATE FITTINGS. SEE PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION.
- 5 EXISTING UTILITY TUNNEL TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL FIELD VERIFY ELEVATION, AND LOCATION PRIOR TO CONSTRUCTION.
- 6 INSTALL 1" P.V.C. (SCHEDULE 40 WITH SOLVENT WELDED JOINTS) WATER LINE, INCLUDING ALL SCHEDULE 80 BENDS, TEES, FITTINGS AND THRUST BLOCKS.
- 7 INSTALL 1" GATE VALVE WITH VALVE BOX AND COVER (CITY OF PHOENIX STANDARD DETAIL NO. P1391-1).
- 8 INSTALL 2"x2" TEE WITH A 2" TO 1" REDUCER.
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**PRIVATE SANITARY SEWER
CONSTRUCTION NOTES:**

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- 2 INSTALL SANITARY SEWER CLEANOUT (SEE DETAIL ON SHEET WS-1).
- 3 INSTALL 4" P.V.C. (ASTM D3034, SDR-35) SEWER LINE.
- 4 CONNECT TO EXISTING SEWER LINE WITH NECESSARY AND APPROPRIATE FITTINGS.
- 5 EXISTING UTILITY TUNNEL TO REMAIN AND BE PROTECTED. CONTRACTOR SHALL NOTIFY DESIGN ENGINEER IF THERE ARE ANY CONFLICTS WITH INSTALLATION OF SEWER LINE.
- 6 CONNECT TO DRINKING FOUNTAIN WITH NECESSARY AND APPROPRIATE FITTINGS
- 7 CONSTRUCT DRINKING FOUNTAIN (SEE DETAIL ON SHEET WS-3)

UNDERGROUND UTILITY TRACER WIRE NOTE:

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NOTE:
ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

REFER TO PUBLIC FIRE HYDRANT PLAN FOR INSTALLATION OF HYDRANT AND CONNECTION TO THE PUBLIC MAIN.

EXISTING WATER METER VAULT TO BE REMOVED AFTER INSTALLATION OF NEW WATER SERVICE

12" WIDE X 8" DEEP CONC. RING AROUND DRYWELL FOR MANHOLE SUPPORT
"NEENAH" #R-1919 WATER-RESISTANT MANHOLE FRAME, LID W/ LOCKING BAR

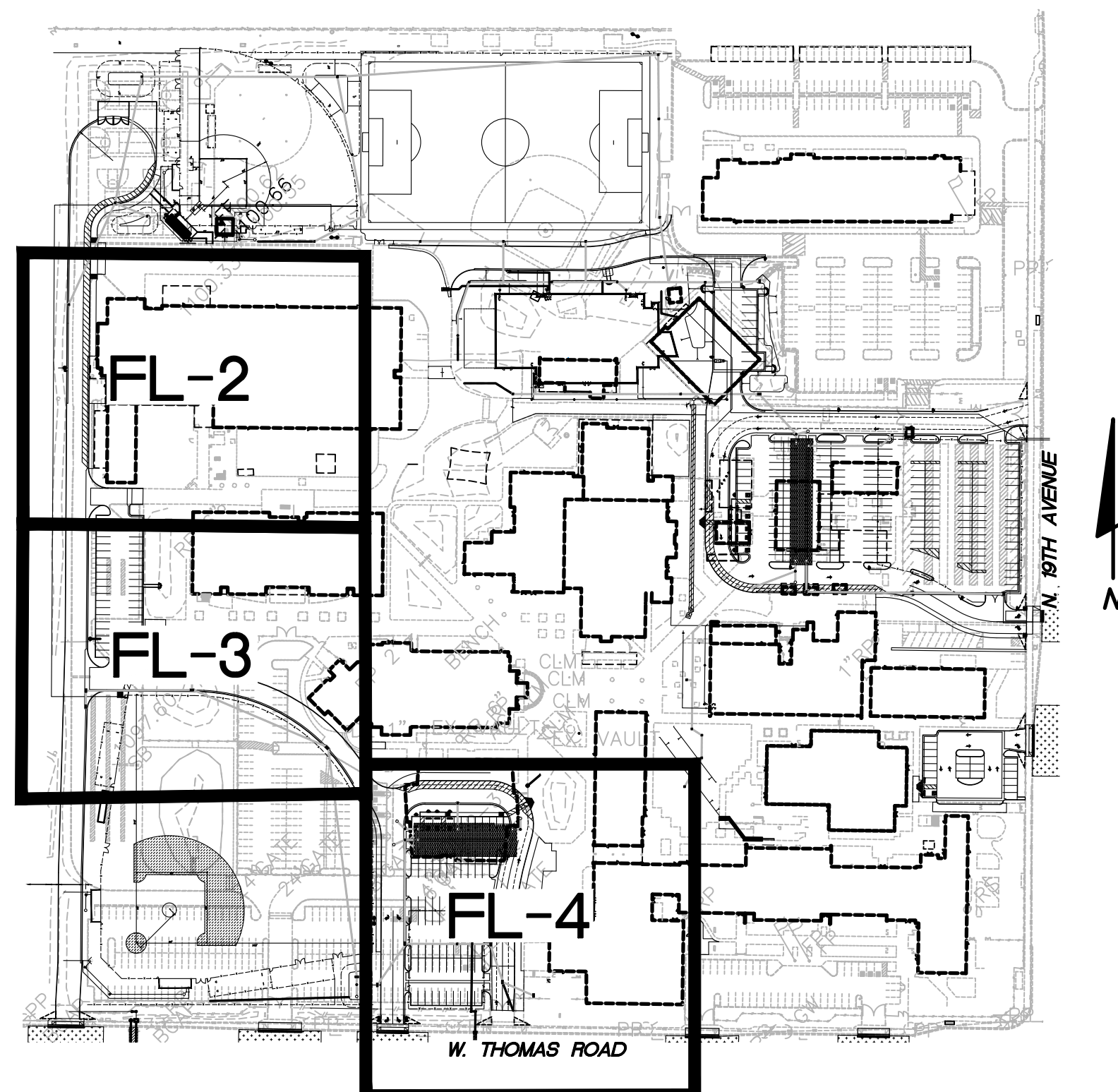
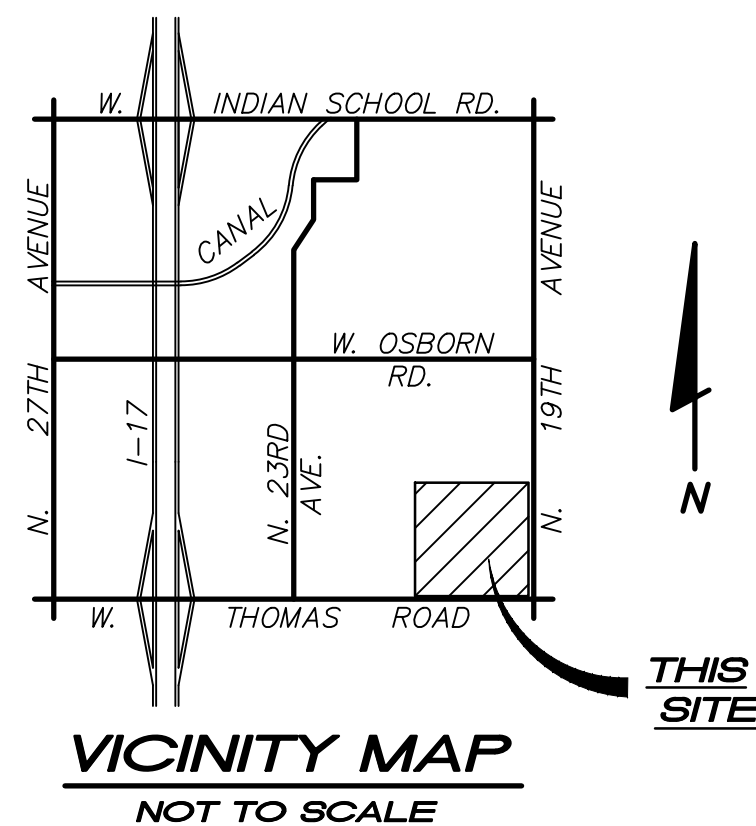


PHASE 2 PRIVATE FIRE LINE PLAN
FOR
METRO TECH HIGH SCHOOL

SITE ADDRESS: 1900 W. THOMAS ROAD
PHOENIX, AZ 85015

FOR
PHOENIX UNION HIGH SCHOOL DISTRICT

4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100



ENGINEER:

HESS-ROUNTREE, INC.
9831 SOUTH 51ST STREET,
SUITE C110
PHOENIX, ARIZONA 85044
PHONE: (480) 496-0244
FAX: (480) 496-0094
CONTACT: DOUG OSBORN, P.E.

OWNER/DEVELOPER:

PHOENIX UNION HIGH SCHOOL
DISTRICT
4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100

SHEET INDEX:

FL-1 COVER SHEET
FL-2 PRIVATE FIRE LINE PLAN
FL-3 PRIVATE FIRE LINE PLAN
FL-4 PRIVATE FIRE LINE PLAN

**DESIGN CIVIL ENGINEER'S
NOTES TO CONTRACTOR:**

1. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
2. THE DESIGN CIVIL 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. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
5. THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE 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. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
6. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
7. ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
8. THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
9. ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

BENCHMARK:

FOUND CITY OF PHOENIX BENCHMARK #524 BEING A CITY OF PHOENIX BRASS CAP IN HANDHOLE LOCATED IN THE INTERSECTION OF WEST OSBORN ROAD AND NORTH 19TH AVENUE.

ELEVATION = 1104.947 (CITY OF PHOENIX DATUM)
(NGVD 29)

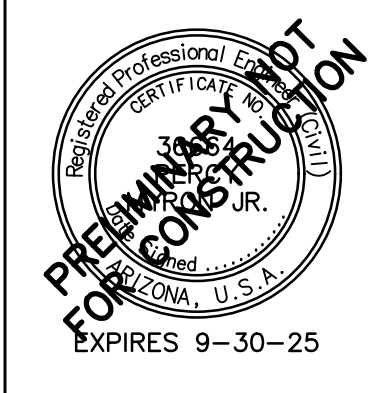
THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOWN OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS AGREE WITH THE INFORMATION CONTAINED IN THE UTILITY COMPANY'S RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS WILL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORSEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

ARIZONA PUBLIC SERVICE	APS LOCATED DEPT. CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CITY OF PHOENIX TRAFFIC SIGNALS	SIGNAL SHOP CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CITY OF PHOENIX WATER SERVICES DEPT.	HECTOR LEPUR CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
COX COMMUNICATION	ELM LOCATION DISPATCH CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CENTURY LINK	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
MCI-(VERIZON BUSINESS)	SUPERVISOR ON DUTY CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
PAULEY CONSTRUCTION, LLC	CELESTE BARRAGAN CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SALT RIVER PROJECT	SRP BLUE STAKE CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SOUTHWEST GAS	ELM LOCATING DISPATCH CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SOUTHWEST GAS HIGH PRESSURE	BORE COORDINATOR CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
WANRACK LLC.	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
ZAYO GROUP FKA AGL	ZAYO LOCATE DESK CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED

NOTE:

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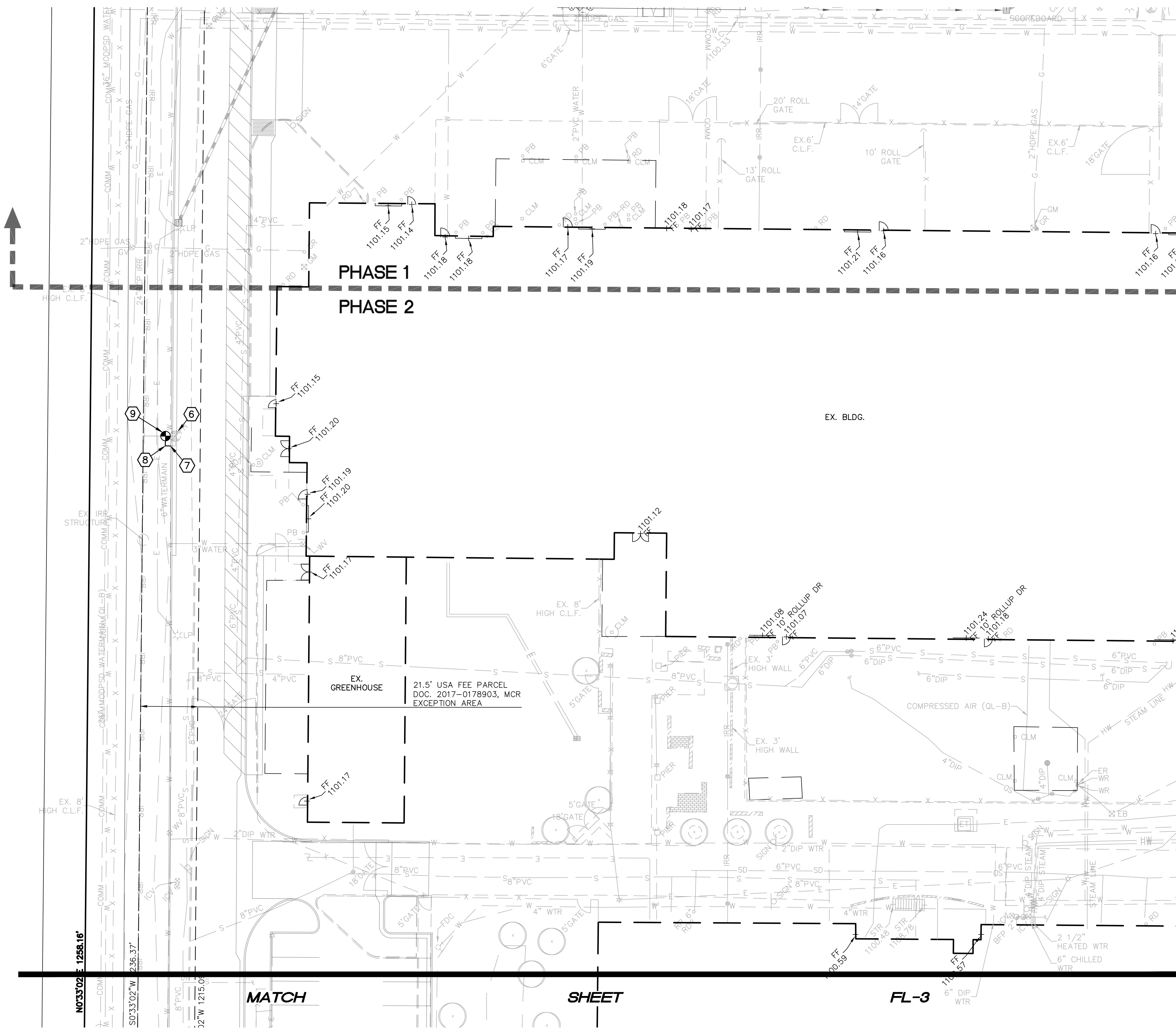
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PHOENIX UNION HIGH SCHOOL DISTRICT

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**PRIVATE FIRE LINE
CONSTRUCTION NOTES:**

- ① CONNECT TO BUILDING FIRE PROTECTION SYSTEM WITH NECESSARY AND APPROPRIATE FITTINGS. SEE FIRE PROTECTION AND PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION
- ② INSTALL 8" - 90° BEND.
- ③ INSTALL 8" P.V.C. (AWWA C-900, DR-18, PRESSURE CLASS 235) WATER LINE WITH DUCTILE IRON BENDS, TEES, FITTINGS, CONCRETE THRUST BLOCKS, ETC.
- ④ CONNECT TO EXISTING BACKFLOW WITH NECESSARY AND APPROPRIATE FITTINGS. REFER TO THE OFFSITE FIRE LINE PLANS FOR INSTALLATION OF THE BACKFLOW AND SERVICE
- ⑤ CONTRACTOR TO POT HOLE AND FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY. MAINTAIN A MINIMUM CLEARANCE OF 12" BETWEEN OUTSIDE OF NEW FIRE LINE AND EXISTING UTILITIES.
- ⑥ EXISTING FIRE HYDRANT TO BE REMOVED AND SALVAGED
- ⑦ CONNECT TO EXISTING FIRE LINE WITH NECESSARY AND APPROPRIATE FITTINGS.
- ⑧ INSTALL 6" POLYWRAPPED D.I.P. (PRESSURE CLASS 350, MINIMUM THICKNESS CLASS 50) WATER LINE.
- ⑨ INSTALL FIRE HYDRANT PER CITY OF PHOENIX SUPPLEMENT TO MAG DETAIL P1360.

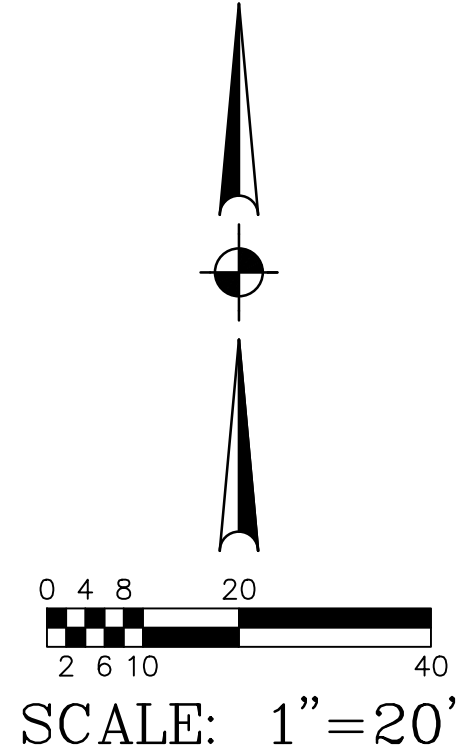
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NOTE:
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PRIVATE FIRE LINE THRUST BLOCK NOTE:

ALL PRIVATE FIRE LINE THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL PRIVATE FIRE LINE THRUST BLOCKS THE AREA OF BEARING FACE SHALL BE PER NFPA-24 (2016 EDITION) TABLE A.10.6.1(B).



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UNDERGROUND UTILITY TRACER WIRE NOTE:

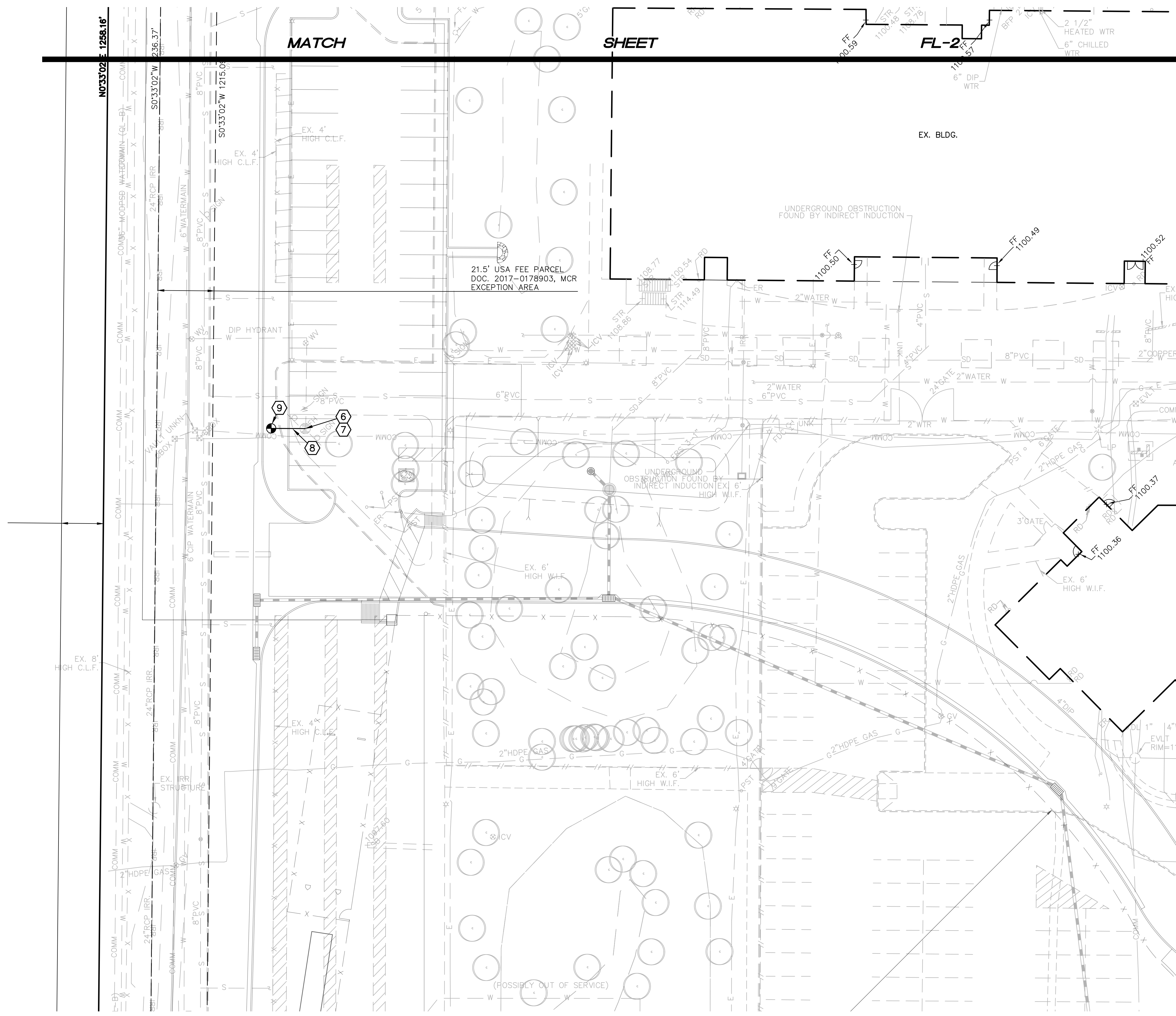
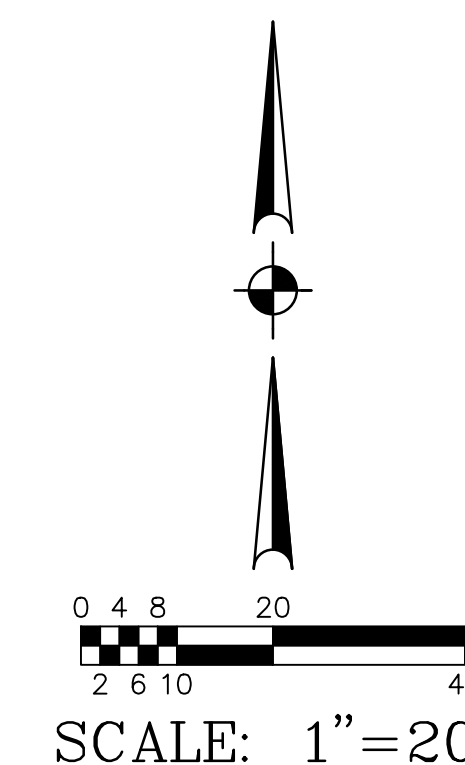
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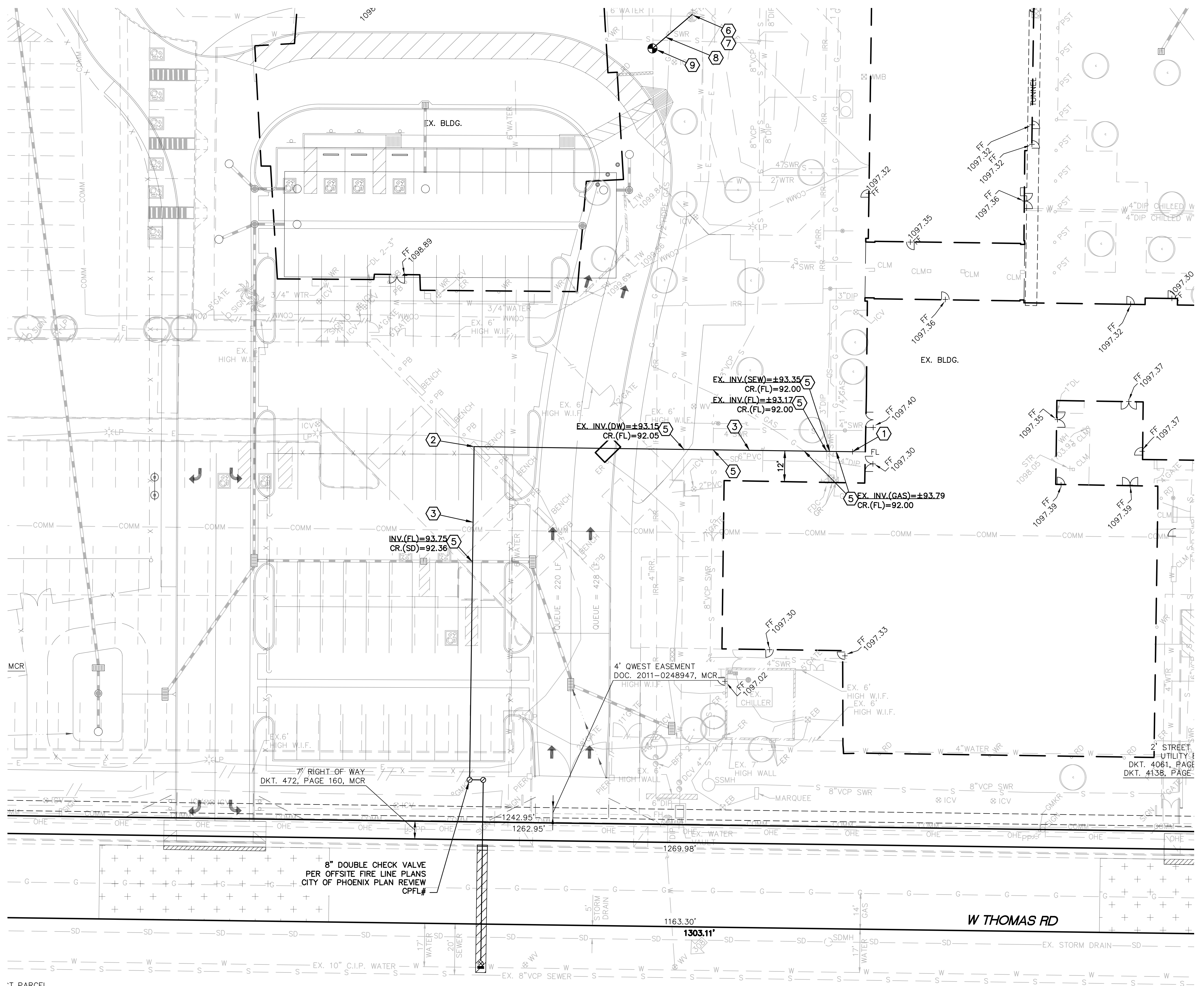
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PRIVATE FIRE LINE THRUST BLOCK NOTE:

ALL PRIVATE FIRE LINE THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL PRIVATE FIRE LINE THRUST BLOCKS THE AREA OF BEARING FACE SHALL BE PER NFPA-24 (2016 EDITION) TABLE A.10.6.1(B).





**PRIVATE FIRE LINE
CONSTRUCTION NOTES:**

- ① CONNECT TO BUILDING FIRE PROTECTION SYSTEM WITH NECESSARY AND APPROPRIATE FITTINGS. SEE FIRE PROTECTION AND PLUMBING DRAWINGS FOR EXACT LOCATION AND CONTINUATION
- ② INSTALL 8" - 90° BEND.
- ③ INSTALL 8" P.V.C. (AWWA C-900, DR-18, PRESSURE CLASS 235) WATER LINE WITH DUCTILE IRON BENDS, TEES, FITTINGS, CONCRETE THRUST BLOCKS, ETC.
- ④ CONNECT TO EXISTING BACKFLOW WITH NECESSARY AND APPROPRIATE FITTINGS. REFER TO THE OFFSITE FIRE LINE PLANS FOR INSTALLATION OF THE BACKFLOW AND SERVICE
- ⑤ CONTRACTOR TO POT HOLE AND FIELD VERIFY LOCATION AND ELEVATION OF EXISTING UTILITY. MAINTAIN A MINIMUM CLEARANCE OF 12" BETWEEN OUTSIDE OF NEW FIRE LINE AND EXISTING UTILITIES.
- ⑥ EXISTING FIRE HYDRANT TO BE REMOVED AND SALVAGED
- ⑦ CONNECT TO EXISTING FIRE LINE WITH NECESSARY AND APPROPRIATE FITTINGS.
- ⑧ INSTALL 6" POLYWRAPPED D.I.P. (PRESSURE CLASS 350, MINIMUM THICKNESS CLASS 50) WATER LINE.
- ⑨ INSTALL FIRE HYDRANT PER CITY OF PHOENIX SUPPLEMENT TO MAG DETAIL P1360.

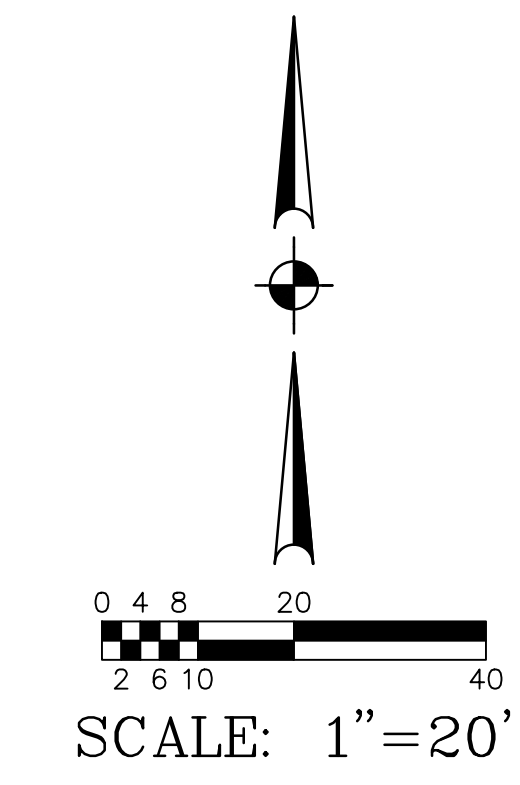
UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF PHOENIX AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.

NOTE:
ALL NEW UNDERGROUND UTILITIES (WATER, SEWER, FIRE AND STORM DRAIN LINES) SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

PRIVATE FIRE LINE THRUST BLOCK NOTE:

ALL PRIVATE FIRE LINE THRUST BLOCKS SHALL BE CONSTRUCTED OF M.A.G. CLASS C CONCRETE. FOR ALL PRIVATE FIRE LINE THRUST BLOCKS THE AREA OF BEARING FACE SHALL BE PER NFPA-24 (2016 EDITION) TABLE A.10.6.1(B).



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1600 N. Desert Drive, Ste. 210
Tempe, Arizona 85288
Phone: (480) 629-8830
www.bowman.com

METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
05-30-25
Revisions

450336B



450336B - FL-7.dwg

PAVING NOTES (CITY OF PHOENIX):

1. COMPACTION SHALL COMPLY WITH MAG SECTION 601.
2. 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.
3. THE ENGINEERING DESIGN ON THESE PLANS ARE 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. IN ADDITION, THE PROPERTY OWNER MUST DEDICATE STREETS IN ACCORDANCE WITH MINIMUM RIGHT-OF-WAY STANDARDS MAP (ORDINANCE NO. 437, LATEST AMENDMENT).
4. 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.
4. THE CITY OF PHOENIX PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTION GROUP, 602-262-7811 VOICE OR 602-534-5500 TTY, SHALL BE NOTIFIED 48 HOURS PRIOR TO ANY CONSTRUCTION WORK WITHIN THE PUBLIC RIGHT-OF-WAY.
5. 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.
6. ALL NEW OR RELOCATED UTILITIES SHALL BE PLACED UNDERGROUND.
7. THE ACTUAL POINT OF PAVEMENT MATCHING, AND/OR TERMINATION, SHALL BE DETERMINED IN THE FIELD BY THE PLANNING AND DEVELOPMENT DEPARTMENT CIVIL/SITE INSPECTOR.
8. AN APPROVED PAVING PLAN SHALL BE ON THE JOB SITE AT ALL TIMES. DEVIATIONS FROM THE PLAN MUST BE PRECEDED BY AN APPROVED PLAN REVISION.
9. OBSTRUCTIONS TO PROPOSED IMPROVEMENTS IN THE RIGHT-OF-WAY SHALL BE REMOVED OR RELOCATED BEFORE BEGINNING CONSTRUCTION OF THE PROPOSED IMPROVEMENTS.
10. ALL EXISTING CATCH BASINS MUST BE RELOCATED WHEN THEY ARE SHOWN IN A NEWLY PROPOSED DRIVEWAY.
11. CONSTRUCTION OF SURFACE IMPROVEMENTS SHALL NOT BEGIN UNTIL CONFLICTING UNDERGROUND UTILITY CONSTRUCTION IS COMPLETED AND SERVICE CONNECTIONS TO ALL PLATTED LOTS HAVE BEEN ADEQUATELY EXTENDED PAST THE RIGHT-OF-WAY.

12. THE PERMIT HOLDER SHALL ARRANGE FOR THE RELOCATION AND RELOCATION COSTS OF ALL UTILITIES, INCLUDING ANY STREET LIGHTS, AND SUBMIT A UTILITY RELOCATION SCHEDULE PRIOR TO THE ISSUANCE OF A CONSTRUCTION PERMIT. RELOCATION OF WATER METERS SHALL BE DONE BY THE WATER SERVICES DEPARTMENT AFTER PAYMENT OF PREVAILING FEES. RELOCATION OF CITY FIRE HYDRANTS REQUIRE A SEPARATE PLAN REVIEW AND PERMIT AT THE DEVELOPER'S EXPENSE.
13. ALL FRAMES, COVERS, VALVE BOXES AND MANHOLE COVERS SHALL BE ADJUSTED TO THE FINISH GRADE PRIOR TO COMPLETION OF PAVING OR RELATED CONSTRUCTION. ADJUSTMENT OF EXISTING "TYPE A" OR "TYPE B" WATERLINE VALVE BOXES IN THE PARKWAY SHALL BE CONSIDERED INCIDENTAL TO PARKWAY GRADING. EXISTING "TYPE B" WATERLINE VALVE BOXES SHALL BE REPLACED WITH "TYPE A" BOXES PER COP STANDARD DETAIL P1391.
14. GRADING BETWEEN BACK OF CURB AND PROPERTY LINE SHALL BE LIMITED TO 4:1 SLOPE.
15. CERTIFICATE OF OCCUPANCY (C OF O) AND/OR FINAL ELECTRICAL CLEARANCE FOR ANY BUILDING IS DENIED UNTIL ALL OFFSITE IMPROVEMENTS ARE COMPLETED.
16. TREES AND SHRUBBERY IN THE RIGHT-OF-WAY THAT CONFLICT WITH PROPOSED IMPROVEMENTS SHALL NOT BE REMOVED WITHOUT APPROVAL OF THE CITY LANDSCAPE ARCHITECT. THE PERMIT HOLDER SHALL BE RESPONSIBLE FOR OBTAINING AUTHORIZATION TO REMOVE AND/OR RELOCATE SAID TREES OR SHRUBBERY BY CALLING THE PARKS & RECREATION DEPARTMENT PRIOR TO ANY RIGHT-OF-WAY PLANT RELOCATIONS AT 602-262-6862.
17. THE PLANNING AND DEVELOPMENT CIVIL/SITE INSPECTOR MUST CONTACT STREET TRANSPORTATION DEPARTMENT, TRAFFIC SERVICES DIVISION AT 602-495-0205 VOICE OR 602-534-5500 TTY TWO (2) WEEKS PRIOR TO COMPLETION OF PAVING WORK FOR SIGNING & STRIPING.
18. 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 FEE IS ASSESSED IN ACCORDANCE WITH SECTION 31-38 OF THE PHOENIX CITY CODE.
19. AUTHORIZATION TO RESTRICT OR CLOSE THE RIGHT-OF-WAY CAN ONLY BE OBTAINED THROUGH THE TRAFFIC SERVICES DIVISION, RIGHT-OF-WAY MANAGEMENT SECTION. TRACS PERMITS MUST BE OBTAINED FOR EACH INDIVIDUAL PROJECT THROUGH ROWM. TRACS PERMITS ARE APPROVED BASED ON THE PHASING OF THE PROJECT AND THE SCOPE OF WORK. PERMISSION TO RESTRICT CITY STREETS, SIDEWALKS AND ALLEYS (STREET CLOSURE PERMITS) SHALL BE REQUESTED AS SPECIFIED IN CHAPTER 2 OF THE TRAFFIC BARRICADE MANUAL, 9TH EDITION AND ADDENDUMS THEREOF.
20. ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TR 00164 AND ORDINANCE G-6308).

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOWN OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS AGREE WITH THE INFORMATION CONTAINED IN THE UTILITY COMPANY'S RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS WILL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORSEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

ARIZONA PUBLIC SERVICE	APS LOCATED DEPT. CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
CITY OF PHOENIX TRAFFIC SIGNALS	SIGNAL SHOP CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
CITY OF PHOENIX WATER SERVICES DEPT.	HECTOR LEPUR CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
COX COMMUNICATION	ELM LOCATION DISPATCH CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
CENTURY LINK	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
MCI-(VERIZON BUSINESS)	SUPERVISOR ON DUTY CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
PAULLEY CONSTRUCTION, LLC	CELESTE BARRAGAN CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
SALT RIVER PROJECT	SRP BLUE STAKE CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
SOUTHWEST GAS	ELM LOCATING DISPATCH CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
SOUTHWEST GAS HIGH PRESSURE	BORE COORDINATOR CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
WANRACK LLC.	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED
ZAYO GROUP FKA AGL	ZAYO LOCATE DESK CO. REPRESENTATIVE CONTACTED	06-08-25 DATE SUBMITTED

PHASE 2 - OFFSITE PAVING PLANS

FOR

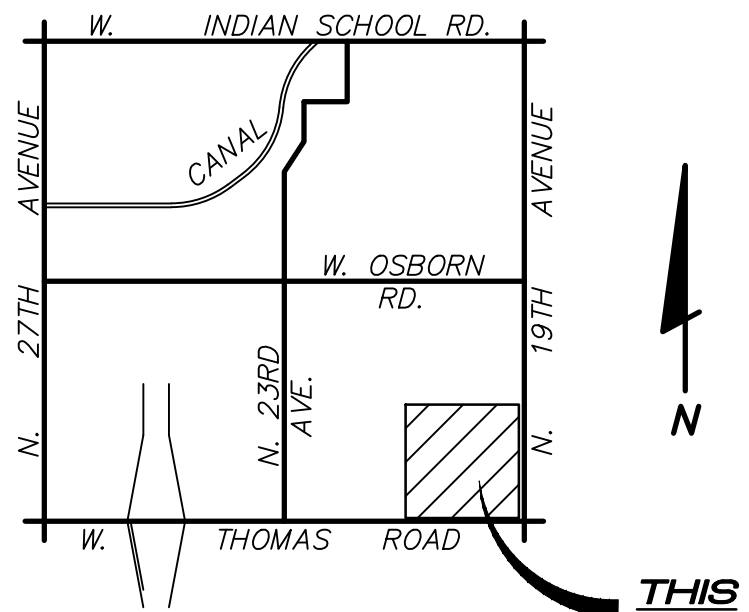
METRO TECH HIGH SCHOOL

SITE ADDRESS: 1900 W. THOMAS ROAD
PHOENIX, AZ 85015

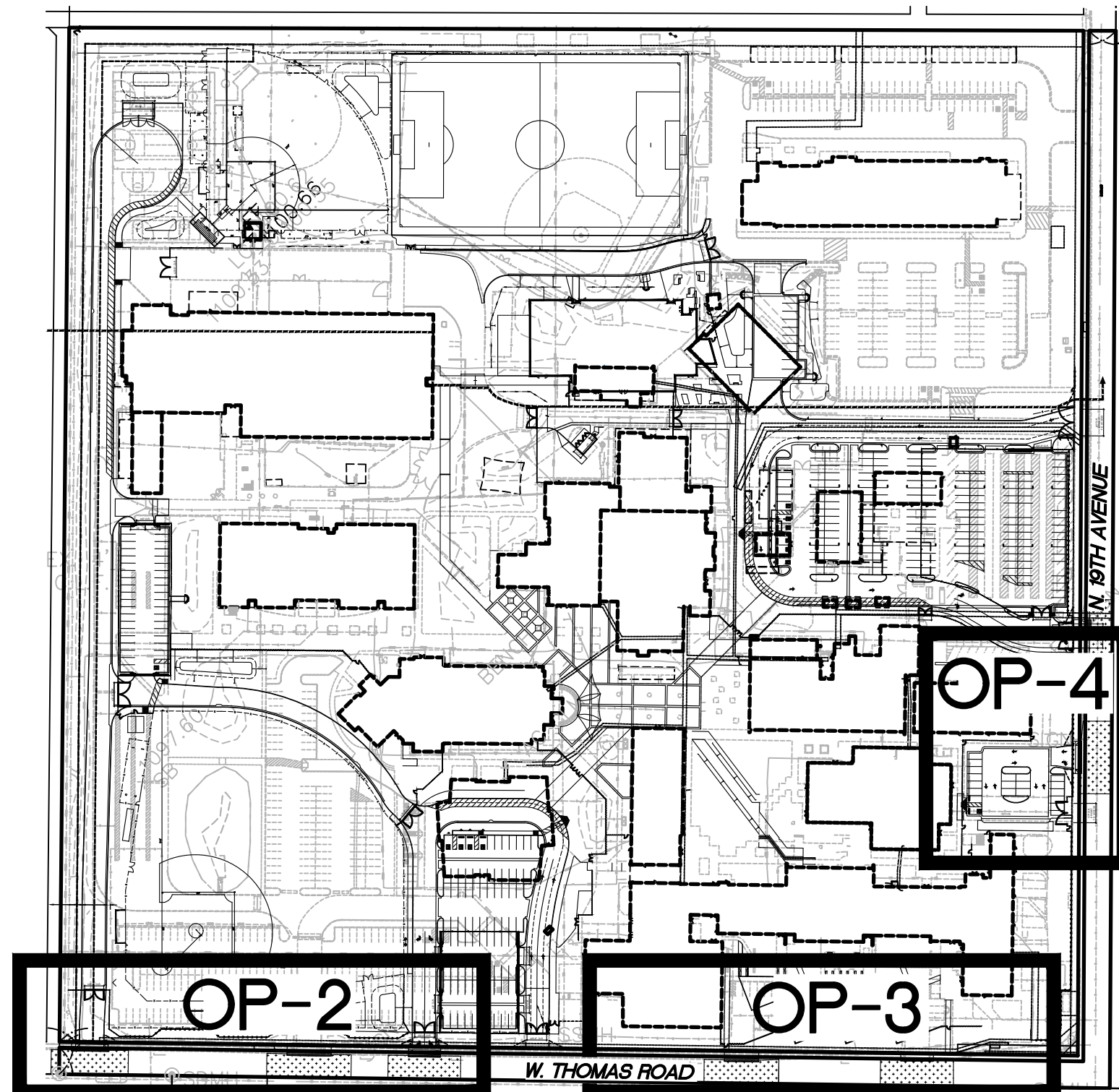
FOR

PHOENIX UNION HIGH SCHOOL DISTRICT

4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100



VICINITY MAP
NOT TO SCALE



OVERALL KEY MAP
NOT TO SCALE

NOTE:

THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE ONLY AND ARE AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF BOWMAN CONSULTING. NO REPRODUCTION OR OTHER USE SHALL BE MADE BY ANY PERSON OR FIRM OTHER THAN BOWMAN CONSULTING OR THE CITY OF PHOENIX WITHOUT EXPRESS PERMISSION OF BOWMAN CONSULTING. ANY UNAUTHORIZED USE SHALL VOID THE ENGINEER'S SEAL AND SIGNATURE HEREON AND NO PROFESSIONAL RESPONSIBILITY WILL REMAIN.

NOTE:

ESTIMATED QUANTITIES ARE FOR PERMIT PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES. THERE ARE ITEMS SHOWN ON THE PLANS THAT ARE NOT LISTED IN THE QUANTITIES.

ESTIMATED OFFSITE QUANTITIES:

1. NEW CONCRETE SIDEWALK	1,069 SF
2. NEW VERTICAL CURB AND GUTTER	138 LF
3. SLURRY SEAL	2,130 SY
4. CONCRETE DRIVEWAY ENTRANCE (C.O.P. S.D. NO. 1255-1)	3 EA
5. CONCRETE DRIVEWAY ENTRANCE (C.O.P. S.D. NO. 1255-2)	1 EA
6. SAWCUT, REMOVE AND REPLACE A.C. PAVEMENT	523 SF

PROJECT DESCRIPTION:

THIS PROJECT INCLUDES CONSTRUCTION OF TWO NEW DRIVEWAY ENTRANCES ON W. THOMAS ROAD AND THE REMOVAL OF TWO EXISTING DRIVEWAY ENTRANCES. THIS PROJECT ALSO INCLUDES THE CONSTRUCTION OF NEW DRIVEWAY ENTRANCE AND THE MODIFICATION OF AN EXISTING DRIVEWAY ENTRANCE ALONG N. 19TH AVENUE.

CITY OF PHOENIX APPROVAL:

REGISTERED ENGINEER/LAND SURVEYOR _____ DATE _____

REGISTRATION NUMBER _____

ENGINEER:

BOWMAN CONSULTING
1600 N. DESERT DR., SUITE 210.
TEMPE, AZ 85288
PHONE: (480) 629-8830
CONTACT: PERCY MYRON JR., P.E.

OWNER/DEVELOPER:

PHOENIX UNION HIGH SCHOOL DISTRICT
4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100

SHEET INDEX:

- OP-1 OFFSITE PAVING PLAN - COVER SHEET
- OP-2 OFFSITE PAVING PLAN
- OP-3 OFFSITE PAVING PLAN
- OP-4 OFFSITE PAVING PLAN

LEGAL DESCRIPTION:

THE SOUTHEAST QUARTER OF THE SOUTHEAST QUARTER OF SECTION 25, TOWNSHIP 2 NORTH, RANGE 2 EAST, OF THE GLA AND SALT RIVER BASE AND MERIDIAN, MARICOPA COUNTY, ARIZONA.

EXCEPT ANY PORTION DEED TO THE UNITED STATES IN INSTRUMENT RECORDED IN DOCUMENT NO. 20170178903.

AS-BUILT CERTIFICATION:

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

DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR:

1. NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
2. THE DESIGN CIVIL 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, THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
3. THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
4. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
5. THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE 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. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
6. THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
7. ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
8. THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
9. ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

BENCHMARK:

FOUND CITY OF PHOENIX BENCHMARK #524 BEING A CITY OF PHOENIX BRASS CAP IN HANDHOLE LOCATED IN THE INTERSECTION OF WEST OSBORN ROAD AND NORTH 19TH AVENUE.

ELEVATION = 1104.947 (CITY OF PHOENIX DATUM) (NGVD29)

KIVA# 98-8833
SDEV# 980181
CPPA# XXXXXX
FACT# XXXXXX
Q.S 15-24



BIDDER GROUP

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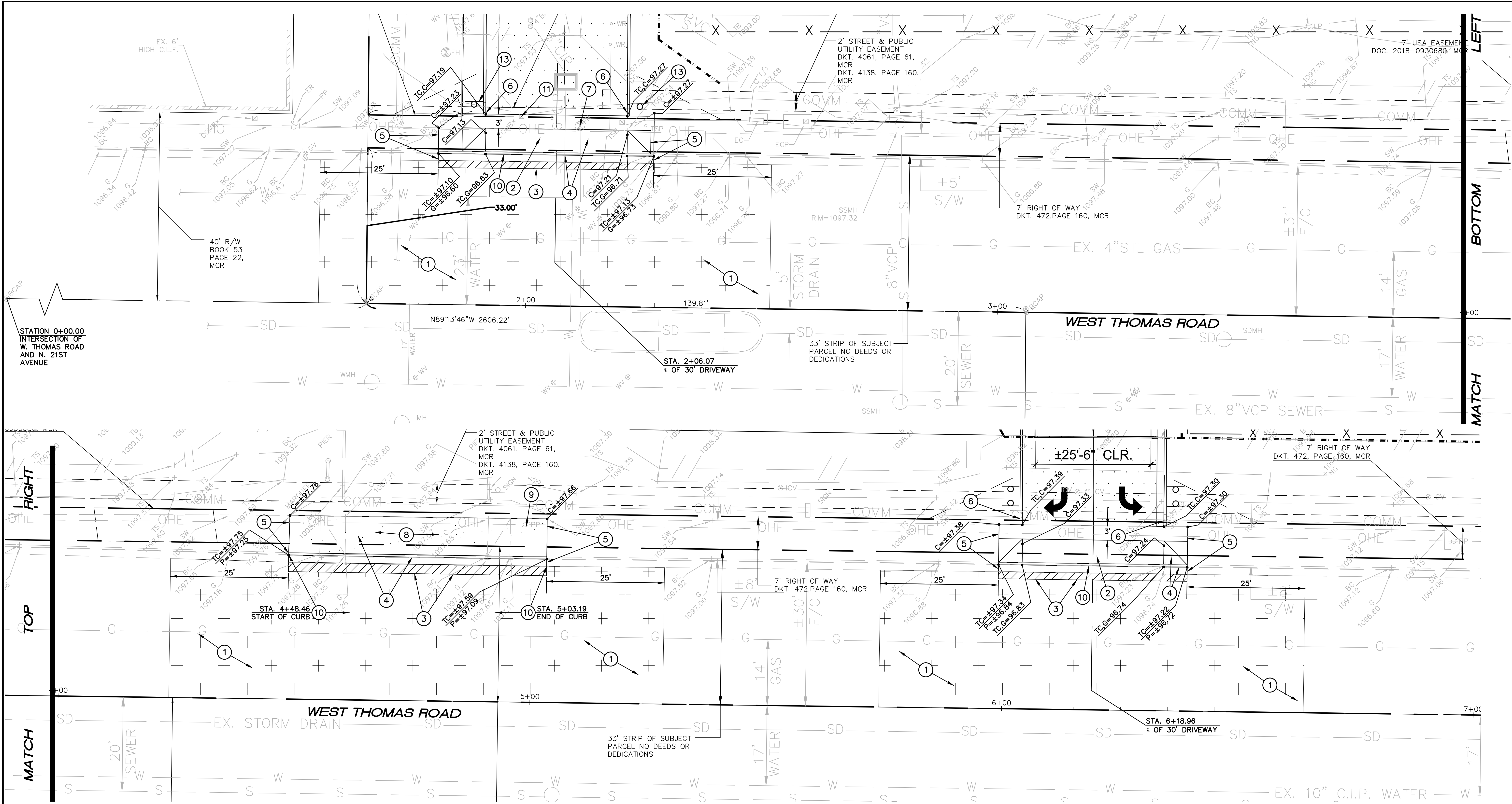
BIDDING SET

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Revisions

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1 OF 4
OP-1

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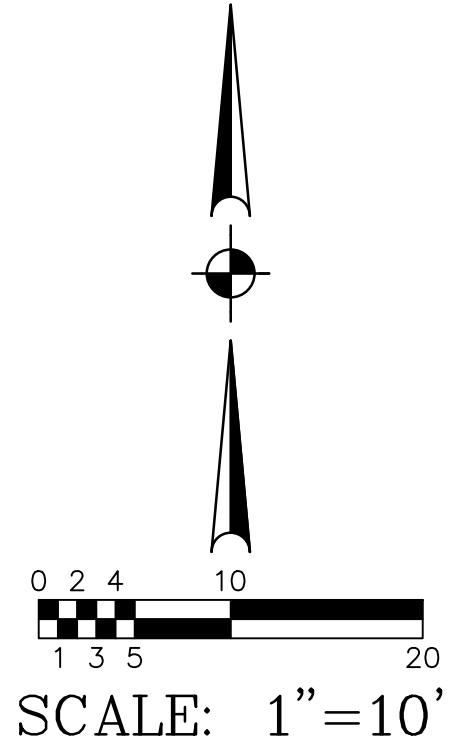


OFFSITE PAVING CONSTRUCTION NOTES:

- ① CRACK FILL AND SLURRY SEAL ROADWAY PER THE CITY OF PHOENIX PAVEMENT CUT POLICY. APPLY TYPE IV SLURRY SEAL PER THE CITY OF PHOENIX REQUIREMENTS TO HALF WIDTH OF W. THOMAS ROAD OR N. 19TH AVENUE IMPACTED BY PAVEMENT REMOVAL OR REPLACEMENT. THE TREATMENT AREA SHALL EXTEND 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS. CRACK FILL AND SLURRY SEAL BETWEEN EXISTING AND NEW PAVEMENT AREAS PRIOR TO ANY PAVEMENT TREATMENT.
- ② CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF PHOENIX STANDARD DETAIL NO. P1255-1).
- ③ SAWCUT REMOVE AND REPLACE A MINIMUM 2 FEET (2') OR EXISTING A.C. PAVEMENT (MAG SECTION 336 AND CITY OF PHOENIX STANDARD DETAIL NO. P1200, TYPE B, OR MATCH EXISTING, WHICHEVER IS GREATER).
- ④ SAWCUT AND REMOVE EXISTING CONCRETE VERTICAL CURB, GUTTER AND SIDEWALK.
- ⑤ MATCH EXISTING ELEVATION AND LOCATION.
- ⑥ INSTALL CURB TERMINATION (MAG STANDARD DETAIL NO. 222).

- ⑦ EXISTING FIRE HYDRANT TO BE RELOCATED (SEE PUBLIC FIRE HYDRANT PLANS FOR DETAILS).
- ⑧ INSTALL CONCRETE SIDEWALK (CITY OF PHOENIX STANDARD DETAIL NO. P1230).
- ⑨ EXISTING LIGHT POLE TO REMAIN. PROTECT FROM DAMAGE.
- ⑩ INSTALL CONCRETE VERTICAL CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-1, TYPE A).
- ⑪ CONTRACTOR SHALL COORDINATE WITH QWEST TO RELOCATE EXISTING COMMUNICATION BOX OUT OF NEW DRIVEWAY ENTRANCE LOCATION.
- ⑫ CONSTRUCT DRIVEWAY ENTRANCE (CITY OF PHOENIX STANDARD DETAIL NO. P1255-2).
- ⑬ INSTALL "RIGHT TURN ONLY" SIGN (M.U.T.C.D. R3-5R, WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B' (TOP OF SIGN SHALL BE 6' ABOVE GRADE)).

Rj - is it possible to have demo pick up all of the saw cut? Or do we need to coordinate with other trades?



DLR GROUP

REGISTERED PROFESSIONAL ENGINEER
PHOENIX
FOUNDATION CONSTRUCTION
 EXPIRES 9-30-25

Bowman

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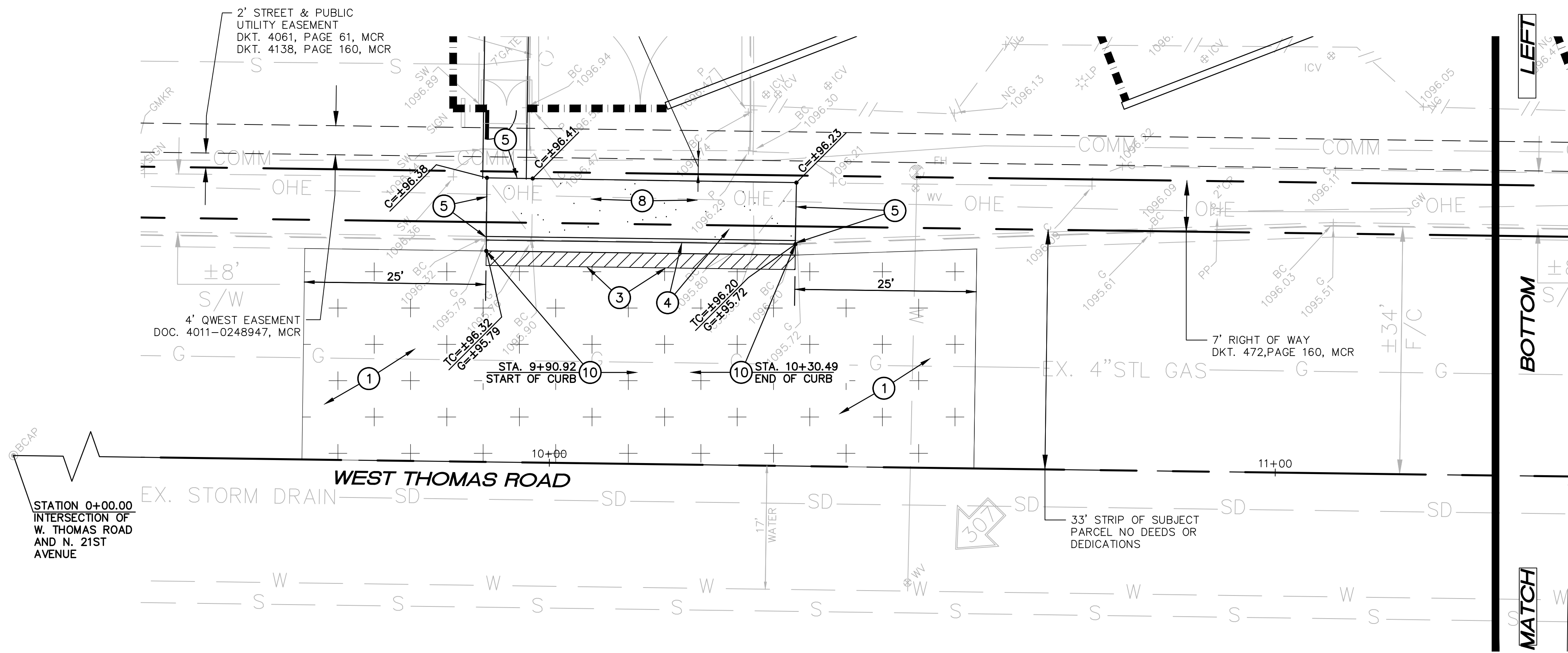
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 PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
 05-30-25
 Revisions

450336B

2 OF 4
OP-2

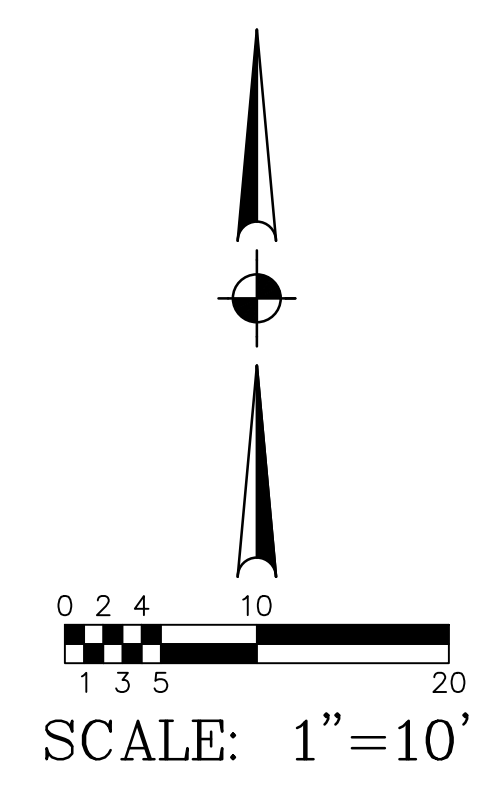
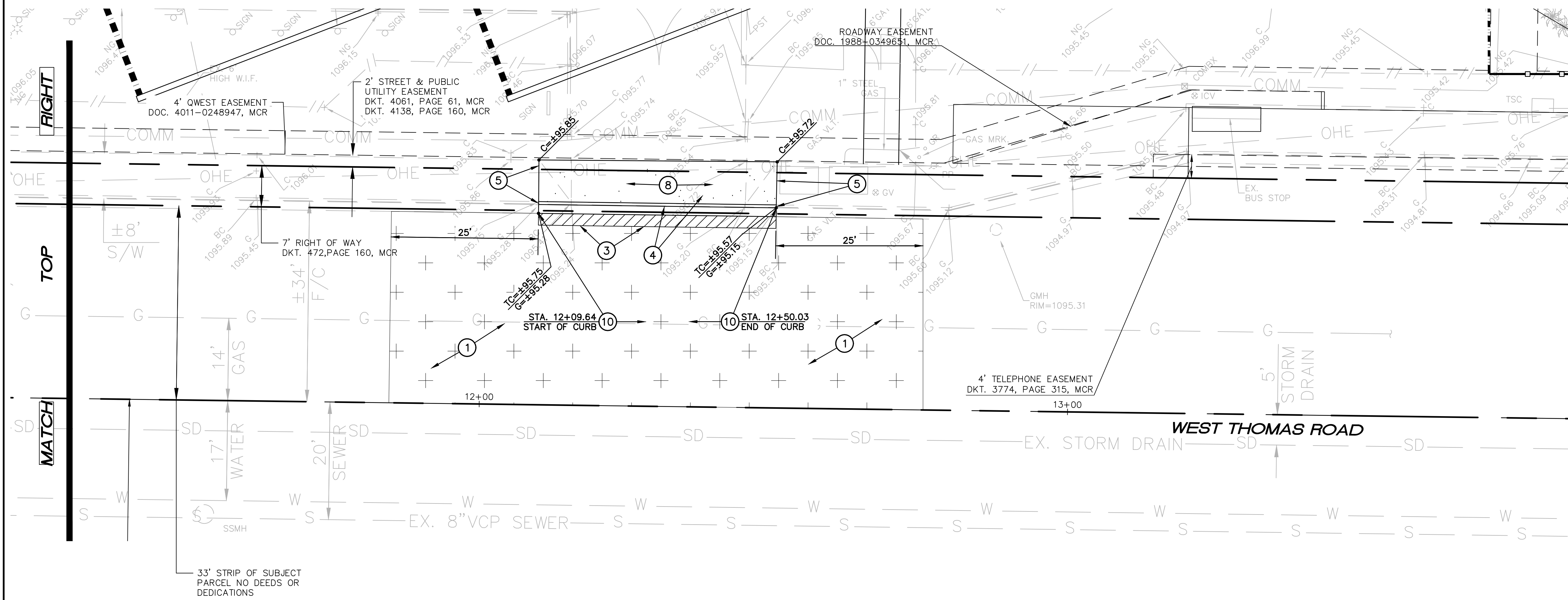




OFFSITE PAVING CONSTRUCTION NOTES:

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- ② CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF PHOENIX STANDARD DETAIL NO. P1255-1).
- ③ SAWCUT REMOVE AND REPLACE A MINIMUM 2 FEET (2') OR EXISTING A.C. PAVEMENT (MAG SECTION 336 AND CITY OF PHOENIX STANDARD DETAIL NO. P1200, TYPE B, OR MATCH EXISTING, WHICHEVER IS GREATER).
- ④ SAWCUT AND REMOVE EXISTING CONCRETE VERTICAL CURB, GUTTER AND SIDEWALK.
- ⑤ MATCH EXISTING ELEVATION AND LOCATION.
- ⑥ INSTALL CURB TERMINATION (MAG STANDARD DETAIL NO. 222).
- ⑦ EXISTING FIRE HYDRANT TO BE RELOCATED (SEE PUBLIC FIRE HYDRANT PLANS FOR DETAILS).
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- ⑪ CONTRACTOR SHALL COORDINATE WITH QWEST TO RELOCATE EXISTING COMMUNICATION BOX OUT OF NEW DRIVEWAY ENTRANCE LOCATION.
- ⑫ CONSTRUCT DRIVEWAY ENTRANCE (CITY OF PHOENIX STANDARD DETAIL NO. P1255-2).
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STATION 0+00.00
INTERSECTION OF
W. THOMAS ROAD
AND N. 21ST
AVENUE



DLRGROUP

Bowman
Bowman Consulting Group Ltd
1600 N. Desert Drive, Ste 210
Tempe, Arizona 85288
Phone: (480) 629-8830
www.bowman.com

Professional Engineer
FOUR CONSTRUCTION
EXPIRES 9-30-25

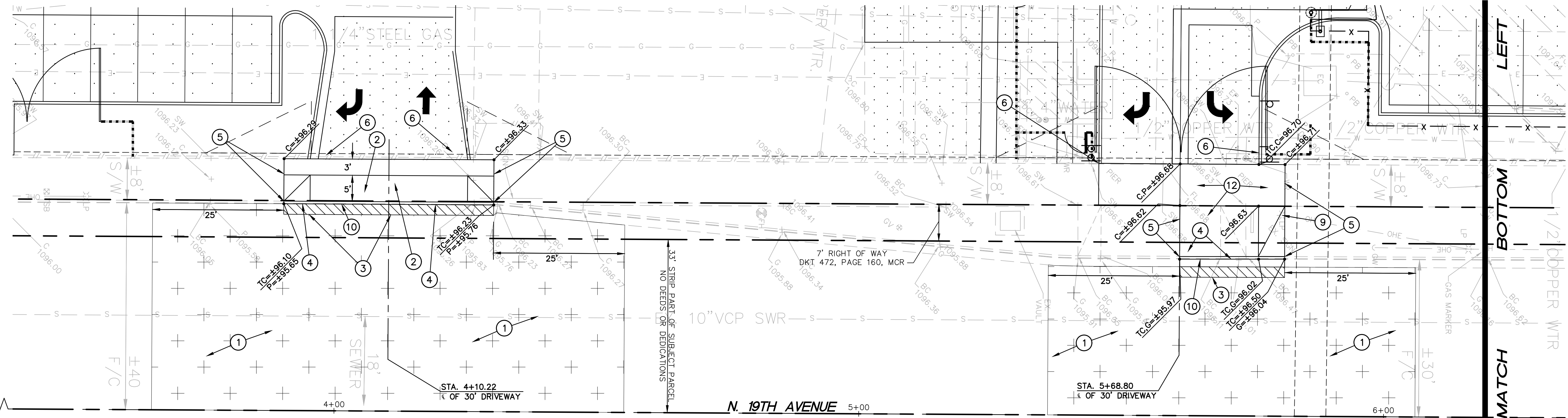
METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
05-30-25
Revisions

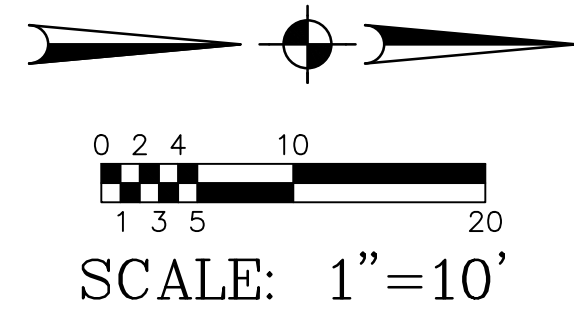
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THOMAS ROAD



STA. 0+00.00
INTERSECTION OF THOMAS
ROAD AND N. 19TH AVENUE

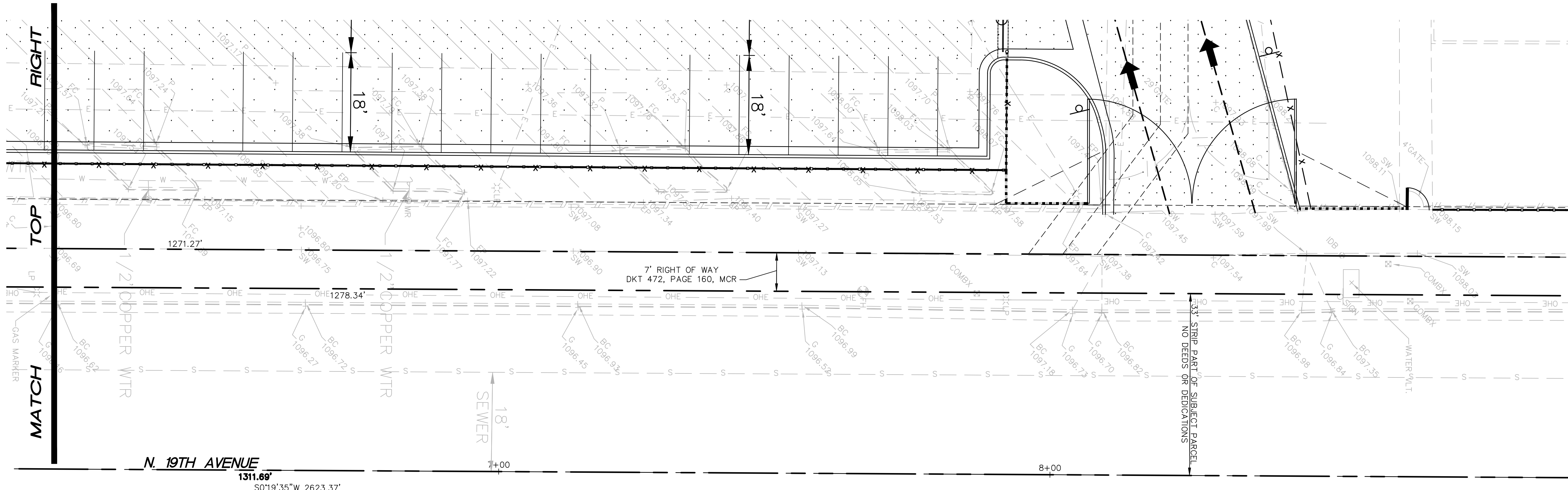


OFFSITE PAVING CONSTRUCTION NOTES:

- ① CRACK FILL AND SLURRY SEAL ROADWAY PER THE CITY OF PHOENIX PAVEMENT CUT POLICY. APPLY TYPE IV SLURRY SEAL PER THE CITY OF PHOENIX REQUIREMENTS TO HALF WIDTH OF W. THOMAS ROAD OR N. 19TH AVENUE IMPACTED BY PAVEMENT REMOVAL OR REPLACEMENT. THE TREATMENT AREA SHALL EXTEND 25' IN BOTH DIRECTIONS FROM THE PAVEMENT CUTS. CRACK FILL AND SLURRY SEAL BETWEEN EXISTING AND NEW PAVEMENT AREAS PRIOR TO ANY PAVEMENT TREATMENT.
- ② CONSTRUCT CONCRETE DRIVEWAY ENTRANCE (CITY OF PHOENIX STANDARD DETAIL NO. P1255-1).
- ③ SAWCUT REMOVE AND REPLACE A MINIMUM 2 FEET (2') OR EXISTING A.C. PAVEMENT (MAG SECTION 336 AND CITY OF PHOENIX STANDARD DETAIL NO. P1200, TYPE B, OR MATCH EXISTING, WHICHEVER IS GREATER).

- ④ SAWCUT AND REMOVE EXISTING CONCRETE VERTICAL CURB, GUTTER AND SIDEWALK.
- ⑤ MATCH EXISTING ELEVATION AND LOCATION.
- ⑥ INSTALL CURB TERMINATION (MAG STANDARD DETAIL NO. 222).
- ⑦ EXISTING FIRE HYDRANT TO BE RELOCATED (SEE PUBLIC FIRE HYDRANT PLANS FOR DETAILS).
- ⑧ INSTALL CONCRETE SIDEWALK (CITY OF PHOENIX STANDARD DETAIL NO. P1230).
- ⑨ EXISTING LIGHT POLE TO REMAIN. PROTECT FROM DAMAGE.
- ⑩ INSTALL CONCRETE VERTICAL CURB AND GUTTER (MAG STANDARD DETAIL NO. 220-1, TYPE A).

- ⑪ CONTRACTOR SHALL COORDINATE WITH QWEST TO RELOCATE EXISTING COMMUNICATION BOX OUT OF NEW DRIVEWAY ENTRANCE LOCATION.
- ⑫ CONSTRUCT DRIVEWAY ENTRANCE (CITY OF PHOENIX STANDARD DETAIL NO. P1255-2).
- ⑬ INSTALL "RIGHT TURN ONLY" SIGN (M.U.T.C.D. R3-5R, WITH POST AND BASE PER MAG STANDARD DETAIL NO. 131, TYPE 'B' (TOP OF SIGN SHALL BE 6' ABOVE GRADE)).



N. 19TH AVENUE
1311.69'
S019°35'W 2623.37'



FIRE LINE NOTES (CITY OF PHOENIX):

- ALL CONSTRUCTION IN CITY OF PHOENIX R.O.W. IS TO CONFORM TO M.A.G. SPECIFICATIONS AND DETAILS AND CITY OF PHOENIX SUPPLEMENT TO M.A.G. SPECIFICATIONS AND DETAILS, UNLESS MODIFIED ON THE PLANS.
- PLANNING & DEVELOPMENT DEPARTMENT'S CIVIL/SITE INSPECTION STAFF SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS, TELEPHONE (602) 262-7811.
- IT IS REQUIRED THAT A FORMAL WRITTEN REQUEST FOR A FIRE LINE TURN-ON BE RECEIVED BY CIVIL ENGINEERING OF THE PLANNING & DEVELOPMENT DEPARTMENT FROM CITY OF PHOENIX FIRE PREVENTION UPON COMPLETION OF THE FIRE LINE WORK. THIS JOB IS NOT COMPLETE UNTIL THIS HAS BEEN DONE AND THE LINE TURNED ON BY THE WATER SERVICES DEPARTMENT.
- THE FOLLOWING MAG DETAILS ARE SPECIFICALLY NOT APPROVED:
390 CURB STOP WITH FLUSHING PIPE
391-1 VALVE BOX INSTALLATION
346 FIRE LINE DETECTOR CHECK VAULT
- 6" X 2" TAPPED CAP WITH BALL VALVE RATE 300 PSI OR GREATER AT THE END OF OFFSITE WORK IS REQUIRED IF ONSITE WORK IS NOT CONCURRENT WITH OFFSITE CONSTRUCTION. THE TAPPED CAP MUST BE INSTALLED BEFORE THE BACKFLOW PREVENTION DEVICE.
- FIRE LINE CONNECTION TO CITY MAINS SHALL BE USED FOR FIRE PROTECTION SYSTEM ONLY. NO METERED SERVICES CAN BE CONNECTED TO A FIRE LINE.
- BACKFLOW PREVENTION DEVICES ARE REQUIRED ON ALL FIRE LINES. CONNECTIONS ARE TO BE IN ACCORDANCE WITH UNIVERSITY OF SOUTHERN CALIFORNIA -MANUAL OF CROSS-CONNECTION CONTROL. SEE BUILDING SAFETY FOR DETAILS. BACKFLOW DEVICES ARE TO BE SHOWN ON THE OFFSITE PLAN. FIRE LINES THAT ARE PROPOSED WITH BACKFLOW PREVENTION DEVICES SHALL BE REQUIRED TO PROVIDE A CERTIFICATE OF APPROVAL FROM THE UNIVERSITY OF SOUTHERN CALIFORNIA FOUNDATION FOR CROSS CONNECTION CONTROL AND HYDRAULIC RESEARCH (USC -FCCCHR), PRIOR TO FIRE LINE PERMIT ISSUANCE, PER ARIZONA ADMINISTRATIVE CODE R18-4-115D.
- BACKFLOW PREVENTION DEVICES SHALL NOT BE LOCATED IN DRIVEWAYS, VISIBILITY TRIANGLES, OR OTHER LOCATIONS WHERE ACCIDENTAL DAMAGE OR VISIBILITY OBSTRUCTION WOULD BE A LIKELY CONSEQUENCE.
- BACKFLOW PREVENTION DEVICES SHALL BE INSTALLED OUTSIDE OF RIGHT-OF-WAY AT (OR NEAR) THE PROPERTY LINE (POINT OF SERVICE) AND SHALL BE FULLY ACCESSIBLE FOR THE PERIODIC TESTING, REPAIRS, AND REPLACEMENT. THERE SHALL BE AN UNOBSTRUCTED RADIUS OF NO LESS THAN THREE (3) FEET FROM THE OUTER PERIMETER OF THE BACKFLOW PREVENTION DEVICE PER THE 2006 PHOENIX FIRE CODE (INTERNATIONAL FIRE CODE) SECTION 901.10.
- IN THE ABSENCE OF SPECIFIC PRESSURE DROP INFORMATION, THE DIAMETER OF THE INLET OR OUTLET OF ANY BACKFLOW PREVENTION DEVICE OR ITS CONNECTING PIPING SHALL NOT BE LESS THAN THE DIAMETER OF SUCH WATER DISTRIBUTION PIPING TO THE FIXTURES SERVED BY THE DEVICE, PER UPC 610.2. IF AVAILABLE, PRESSURE DROP INFORMATION SHALL BE PROVIDED WITH THE SUBMITTED PLANS.
- LOOPED ONSITE FIRE LINE SYSTEMS SHALL BE PROVIDED A BACKFLOW PREVENTER AT EACH POINT OF CONNECTION TO THE PUBLIC WATER SYSTEM, PER UPC 603.3.11.

- ALL WORK MUST COMPLY WITH REQUIREMENTS OF THE CURRENT CITY OF PHOENIX TRAFFIC BARRICADE MANUAL.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER MAG SECTION 336 AND C.O.P. DETAIL P1200 - TYPE B. CURB AND GUTTER REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL SECTION, PER MAG STANDARD DETAIL 220. SIDEWALK REPLACEMENT SHALL BE A MINIMUM OF ONE (1) FULL PANEL PER C.O.P. DETAIL P1230. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING & DEVELOPMENT OFFSITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX RIGHT-OF-WAY, WILL BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX RIGHT-OF-WAY.

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOWN OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS AGREE WITH THE INFORMATION CONTAINED IN THE UTILITY COMPANY'S RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS WILL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORSEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

ARIZONA PUBLIC SERVICE	APS LOCATED DEPT. CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CITY OF PHOENIX TRAFFIC SIGNALS	SIGNAL SHOP CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CITY OF PHOENIX WATER SERVICES DEPT.	HECTOR LEPUR CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
COX COMMUNICATION	ELM LOCATION DISPATCH CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CENTURY LINK	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
MCI-(VERIZON BUSINESS)	SUPERVISOR ON DUTY CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
PAULEY CONSTRUCTION, LLC	CELESTE BARRAGAN CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SALT RIVER PROJECT	SRP BLUE STAKE CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SOUTHWEST GAS	ELM LOCATING DISPATCH CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SOUTHWEST GAS HIGH PRESSURE	BORE COORDINATOR CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
WANRACK LLC.	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
ZAYO GROUP FKA AGL	ZAYO LOCATE DESK CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED

QUANTITIES:

1. 10"x8" TAPPING SLEEVE AND VALVE	1	EA
2. 8" DUCTILE IRON PIPE	73	LF
3. 8" BACKFLOW PREVENTER	1	EA
4. PAVEMENT REMOVE AND REPLACE	22	SY
5. SIDEWALK REMOVE AND REPLACE	32	SF
6. CURB REMOVE AND REPLACE	4	LF
7. PAVEMENT RESTORATION	327	SY

ESTIMATED QUANTITIES ARE FOR CITY OF PHOENIX PERMIT PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES. THERE ARE ITEMS SHOWN ON THE PLANS THAT ARE NOT USES IN THE QUANTITIES

LEGEND:

REFER TO FL-2 FOR LEGEND

NOTE:

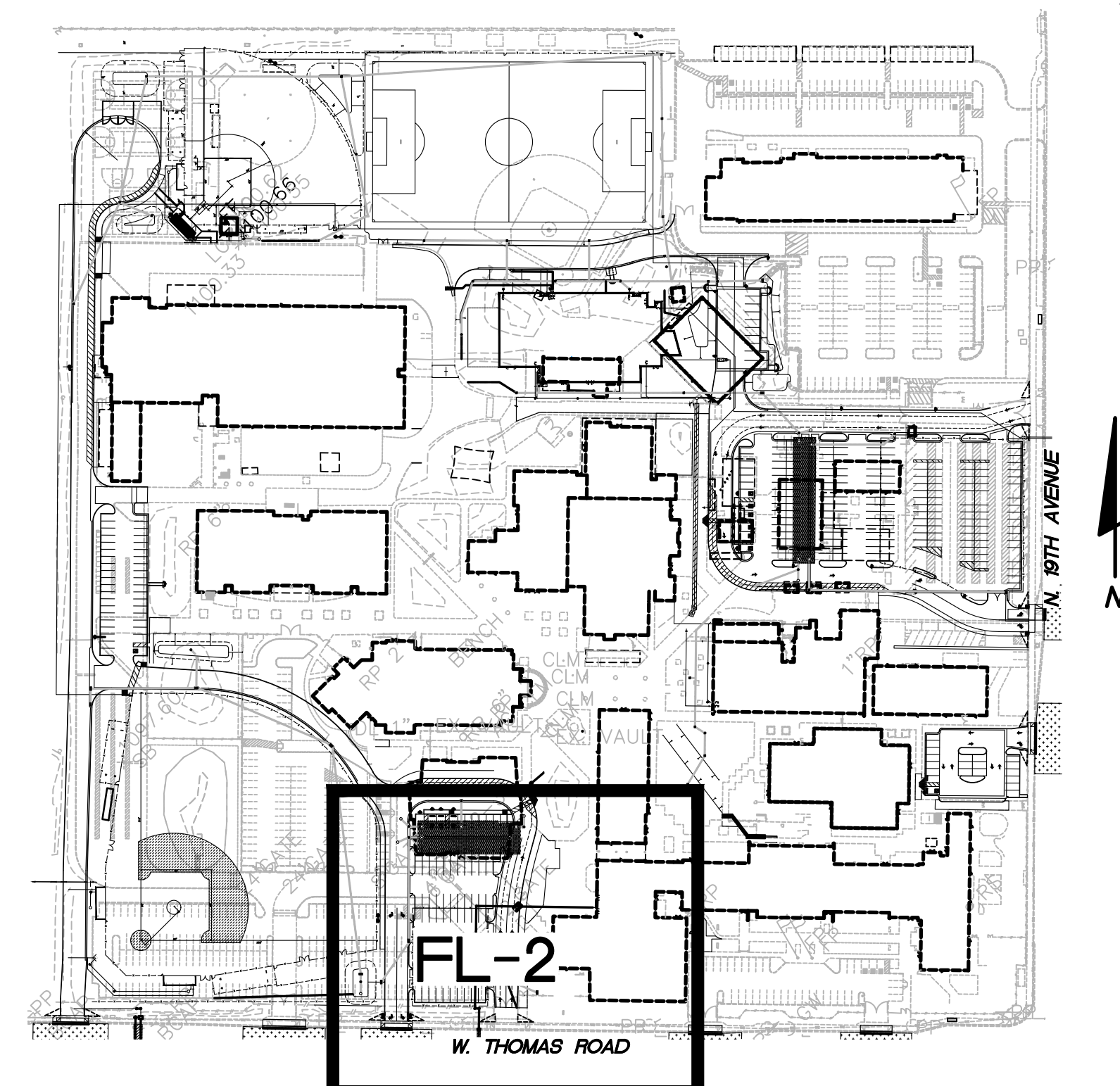
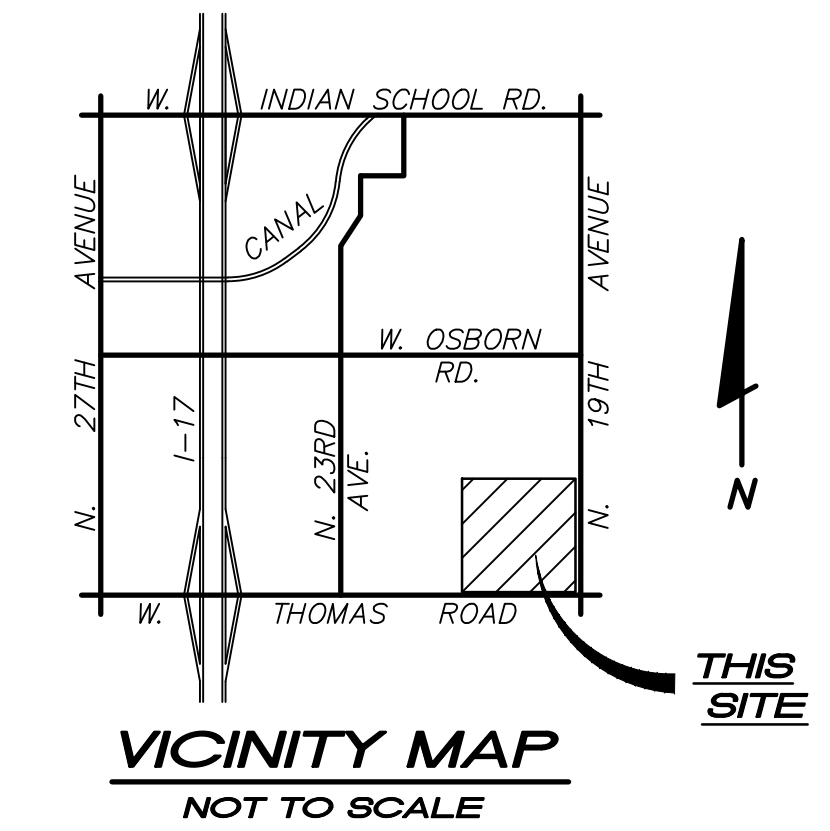
THESE DRAWINGS ARE AN INSTRUMENT OF SERVICE ONLY AND ARE AND SHALL REMAIN THE EXCLUSIVE PROPERTY OF HESS-ROUNTREE, INC. NO REPRODUCTION OR OTHER USE SHALL BE MADE BY ANY PERSON OR FIRM OTHER THAN HESS-ROUNTREE, INC. OR THE CITY OF PHOENIX WITHOUT EXPRESS PERMISSION OF HESS-ROUNTREE, INC. ANY UNAUTHORIZED USE SHALL VOID THE ENGINEER'S SEAL AND SIGNATURE HEREON AND NO PROFESSIONAL RESPONSIBILITY WILL REMAIN.

PHASE 2 OFFSITE FIRE LINE PLAN
FOR
METRO TECH HIGH SCHOOL

SITE ADDRESS: 1900 W. THOMAS ROAD
PHOENIX, AZ 85015

FOR
PHOENIX UNION HIGH SCHOOL DISTRICT

4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100



SHEET INDEX MAP
NOT TO SCALE

ENGINEER:

BOWMAN
1600 N DESERT DRIVE,
SUITE 210
TEMPE, ARIZONA 85288
PHONE: (480) 867-0124
CONTACT: PERCY MYRON JR., P.E.

OWNER/DEVELOPER:

PHOENIX UNION HIGH SCHOOL DISTRICT
4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100

SHEET INDEX:

OFL-1 COVER SHEET
OFL-2 OFFSITE FIRE LINE PLAN

PROJECT DESCRIPTION:

THIS PROJECT INVOLVES INSTALLATION OF A NEW 8" FIRE SERVICE OFF THE EXISTING 10" C.I.P. WATER LINE LOCATED IN W. THOMAS ROAD.

SITE INFORMATION:

APN:110-34-001B
SW QUARTER OF SECTION 25
TOWNSHIP 2 NORTH RANGE 2
EAST OF THE GILA AND SALT RIVER MERIDIAN

REQUIRED FIRE FLOW:

BUILDING REQUIRED FIRE FLOW: 96,984 SF
CONSTRUCTION TYPE = IIIA

REQUIRED FIRE FLOW =2,250 GPM @ 20 PSI* (FULLY SPRINKLED)

*PER 2018 INTERNATIONAL FIRE CODE WITH CITY OF PHOENIX AMENDMENTS, SECTION B105.2 AND TABLE B105.1.

CITY OF PHOENIX APPROVAL:

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 _____ DATE _____
REGISTRATION NUMBER _____

APPROVED FOR:

THE CITY OF PHOENIX

HEALTH DELEGATE
PLANNING & DEVELOPMENT DEPARTMENT

DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR:

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE DESIGN CIVIL 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. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
- THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE 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. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
- ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
- THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

BENCHMARK:

FOUND CITY OF PHOENIX BENCHMARK #524 BEING A CITY OF PHOENIX BRASS CAP IN HANDHOLE LOCATED IN THE INTERSECTION OF WEST OSBORN ROAD AND NORTH 19TH AVENUE.

ELEVATION = 1104.947 (CITY OF PHOENIX DATUM)
(NGVD 29)

Q.S. # 15-24
KIVA # 98-8833
DSAP #
CPFL#



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DLRGROUP

METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET
05-30-25
Revisions
450336B

1 OF 2
OFL-1

FIRE HYDRANT NOTES (CITY OF PHOENIX):

- ALL CONSTRUCTION SHALL BE PERFORMED IN COMPLIANCE WITH ALL APPLICABLE UNIFORM STANDARD DETAILS AND SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION OF MARICOPA ASSOCIATION OF GOVERNMENTS (M.A.G.) AND THE PHOENIX SUPPLEMENTAL STANDARD DETAILS AND SPECIFICATIONS (NEWEST EDITION AND AS MODIFIED HEREON).
- THE FOLLOWING M.A.G. DETAILS ARE SPECIFICALLY NOT APPROVED:
-390 CURB STOP WITH FLUSHING PIPE.
-391-1 VALVE BOX INSTALLATION.
- PLANNING & DEVELOPMENT DEPARTMENT FIELD INSPECTION GROUP SHALL BE NOTIFIED 48 HOURS BEFORE ANY CONSTRUCTION BEGINS BY CALLING (602) 262-7811.
- PAVEMENT REPLACEMENT THICKNESS AND TYPE ARE TO BE PER M.A.G. AND C.O.P. SUPPLEMENT TO 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. AT THE DISCRETION OF THE CITY OF PHOENIX PLANNING & DEVELOPMENT OFFSITE INSPECTOR, TUNNELING UNDER EXISTING CURB AND GUTTER, IN CITY OF PHOENIX R.O.W., MAY BE ALLOWED. TUNNELING UNDER EXISTING SIDEWALK WILL NOT BE ALLOWED IN THE CITY OF PHOENIX R.O.W.
- COMPACTION SHALL COMPLY WITH M.A.G. SECTION 601.
- ASPHALT RESTORATION IS REQUIRED FOR ANY STREET CUT. REFER TO STREET PAVEMENT CUT POLICY (TRT 00167 AND ORDINANCE G-6308).
- PER THE CITY OF PHOENIX ORDINANCE G-4396, THIS PLAN IS FOR OFFICIAL USE ONLY AND MAY NOT BE SHARED WITH OTHERS EXCEPT AS REQUIRED TO FULFILL THE OBLIGATIONS OF YOUR CONTRACT WITH THE CITY OF PHOENIX.
- 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.

THESE PLANS HAVE BEEN SUBMITTED TO THE FOLLOWING UTILITY COMPANIES AND THE WORK CONTAINED IN THESE PLANS HAS BEEN APPROVED BY THESE COMPANIES WITHIN THEIR AREA OF INTEREST. THE SIZE AND LOCATIONS, AS SHOWN OF THE GAS, TELEPHONE AND POWER LINES, AND CONNECTIONS AGREE WITH THE INFORMATION CONTAINED IN THE UTILITY COMPANY'S RECORDS. WHERE THE WORK TO BE DONE CONFLICTS WITH ANY OF THESE UTILITIES, THE CONFLICTS WILL BE RESOLVED AS SPECIFIED IN THE SPECIAL PROVISIONS AND/OR AS OTHERWISE NOTED ON THESE PLANS. CONFLICTS ARISING DURING THE COURSE OF CONSTRUCTION FROM UNFORSEEN CIRCUMSTANCES SHALL BE REPORTED TO THE INTERESTED UTILITY COMPANY AND BE RESOLVED BY THEM AND THE DESIGN ENGINEER.

ARIZONA PUBLIC SERVICE	APS LOCATED DEPT. CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CITY OF PHOENIX TRAFFIC SIGNALS	SIGNAL SHOP CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CITY OF PHOENIX WATER SERVICES DEPT.	HECTOR LEPUR CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
COX COMMUNICATION	ELM LOCATION DISPATCH CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
CENTURY LINK	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
MCI-(VERIZON BUSINESS)	SUPERVISOR ON DUTY CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
PAULEY CONSTRUCTION, LLC	CELESTE BARRAGAN CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SALT RIVER PROJECT	SRP BLUE STAKE CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SOUTHWEST GAS	ELM LOCATING DISPATCH CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
SOUTHWEST GAS HIGH PRESSURE	BORE COORDINATOR CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
WANRACK LLC.	USIC DISPATCH CENTER CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED
ZAYO GROUP FKA AGL	ZAYO LOCATE DESK CO. REPRESENTATIVE CONTACTED	06/04/25 DATE SUBMITTED

QUANTITIES:

1. 10"x6" TAPPING SLEEVE AND VALVE	1	EA
2. 6" DUCTILE IRON PIPE	56	LF
3. 10" DUCTILE IRON PIPE	20	LF
4. PAVEMENT REMOVE AND REPLACE	88	SY
5. SIDEWALK REMOVE AND REPLACE	47	SF
6. CURB REMOVE AND REPLACE	11	LF
7. PAVEMENT RESTORATION	425	SY

ESTIMATED QUANTITIES ARE FOR CITY OF PHOENIX PERMIT PURPOSES ONLY. CONTRACTOR SHALL VERIFY ALL QUANTITIES. THERE ARE ITEMS SHOWN ON THE PLANS THAT ARE NOT USES IN THE QUANTITIES

LEGEND:

REFER TO FL-2 FOR LEGEND

NOTE:

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PUBLIC HYDRANT PLAN

FOR

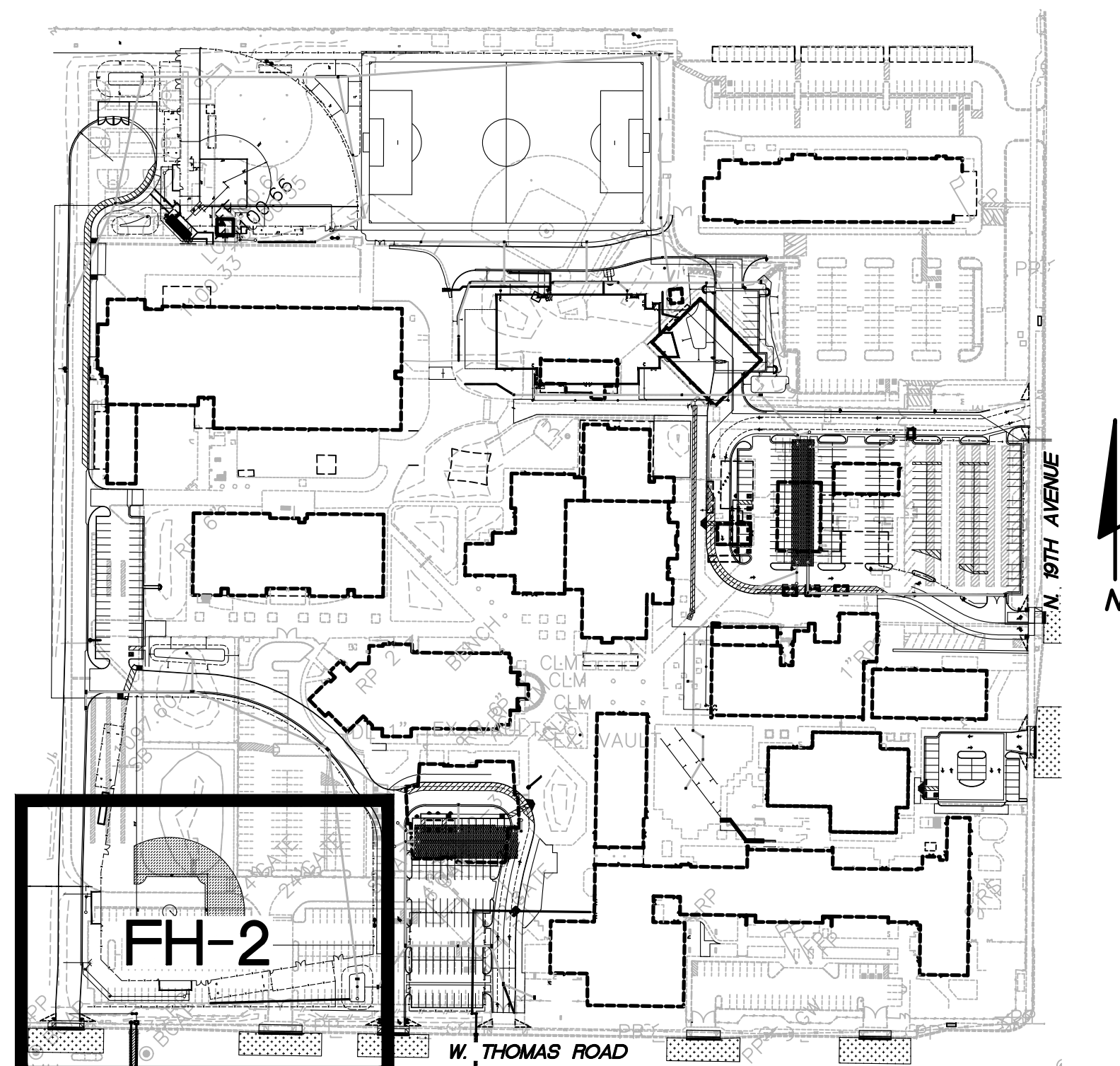
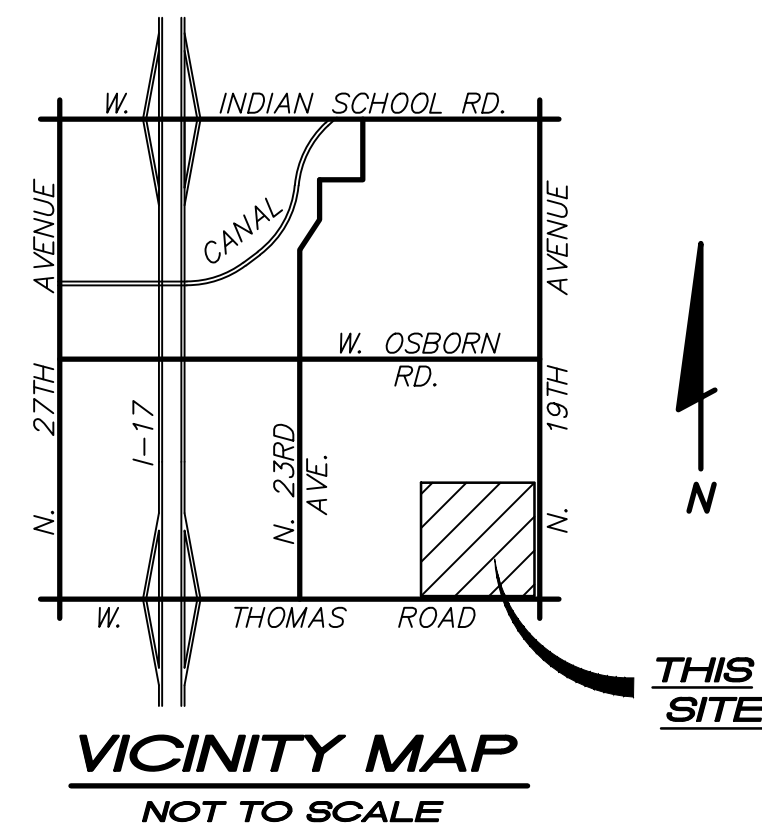
METRO TECH HIGH SCHOOL

SITE ADDRESS: 1900 W. THOMAS ROAD
PHOENIX, AZ 85015

FOR

PHOENIX UNION HIGH SCHOOL DISTRICT

4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100



SHEET INDEX MAP
NOT TO SCALE

ENGINEER:

BOWMAN
1600 N DESERT DRIVE,
SUITE 210
TEMPE, ARIZONA 85288
PHONE: (480) 867-0124
CONTACT: PERCY MYRON JR., P.E.

OWNER/DEVELOPER:

PHOENIX UNION HIGH SCHOOL DISTRICT
4502 N. CENTRAL AVENUE
PHOENIX, ARIZONA 85012
PHONE: (602) 764-1100

SHEET INDEX:

FH-1 COVER SHEET
FH-2 PUBLIC HYDRANT PLAN

PROJECT DESCRIPTION:

THIS PROJECT INVOLVES THE RELOCATION OF AN EXISTING FIRE HYDRANT LOCATED ON W. THOMAS ROAD DUE TO INSTALLATION OF A NEW DRIVEWAY.

SITE INFORMATION:

APN: 110-34-001B
SW QUARTER OF SECTION 25
TOWNSHIP 2 NORTH RANGE 2
EAST OF THE GILA AND SALT RIVER MERIDIAN

CITY OF PHOENIX APPROVAL:

APPROVED FOR:

THE CITY OF PHOENIX

HEALTH DELEGATE
PLANNING & DEVELOPMENT DEPARTMENT

DATE

REGISTERED ENGINEER

DATE

REGISTRATION NUMBER

DESIGN CIVIL ENGINEER'S NOTES TO CONTRACTOR:

- NOTHING CONTAINED IN THE CONTRACT DOCUMENTS SHALL CREATE, NOR SHALL BE CONSTRUED TO CREATE, ANY CONTRACTUAL RELATIONSHIP BETWEEN THE DESIGN CIVIL ENGINEER AND THE CONTRACTOR OR ANY SUBCONTRACTOR.
- THE DESIGN CIVIL 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. THESE ARE SOLELY THE CONTRACTOR'S RESPONSIBILITY. THE DESIGN CIVIL ENGINEER WILL NOT BE RESPONSIBLE FOR THE CONTRACTOR'S FAILURE TO CARRY OUT THE WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ADEQUATE MEANS OF CLEANING TRUCKS AND/OR OTHER EQUIPMENT OF MUD PRIOR TO ENTERING PUBLIC STREETS, AND IT IS THE CONTRACTOR'S RESPONSIBILITY TO CLEAN STREETS, ALLAY DUST, AND TO TAKE WHATEVER MEASURES ARE NECESSARY TO INSURE THAT ALL ROADWAYS AND ON SITE PARKING LOTS/FIRE LANES ARE MAINTAINED IN A CLEAN, MUD AND DUST-FREE CONDITION AT ALL TIMES.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT THE BLUE STAKE CENTER TWO WORKING DAYS PRIOR TO ANY EXCAVATION. THE UNDERGROUND UTILITY LOCATIONS AS SHOWN HEREON ARE BASED ON THE BEST INFORMATION AVAILABLE FROM UTILITY RECORDS AND OTHER DATA AS SUPPLIED TO THIS DESIGN CIVIL ENGINEER. THERE MAY BE OTHER UNDERGROUND UTILITY LINES, SERVICE LINES AND STRUCTURES PRESENT IN THE SUBJECT AREA. CONTRACTOR SHALL INCLUDE IN HIS BID THE COST OF HIRING AN UNDERGROUND UTILITY LOCATING SERVICE FOR THE PURPOSE OF LOCATING ALL UNDERGROUND UTILITIES. CONTRACTOR WILL COORDINATE WITH THE OWNER AND ARCHITECT TO DETERMINE WHETHER SAID UTILITIES ARE TO BE ABANDONED OR PROTECTED FROM DAMAGE.
- THE DESIGN CIVIL ENGINEER MAKES NO REPRESENTATION OR GUARANTEE REGARDING THE 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. PRIOR TO BIDDING THE WORK, THE CONTRACTOR SHALL THOROUGHLY SATISFY HIMSELF AS TO THE ACTUAL CONDITIONS, EARTHWORK QUANTITIES AND REQUIREMENTS OF THE WORK AND EXCESS OR DEFICIENCY THEREIN, ACTUAL OR RELATIVE.
- THE CONTRACTOR SHALL ADJUST ALL EXISTING AND NEW CLEANOUTS, WATER VALVE BOXES, MANHOLES, GAS VALVE BOXES, IRRIGATION BOXES, ETC. IN THE CONSTRUCTION AREA TO FINISH GRADE PER THE APPLICABLE MAG STANDARD DETAIL. ALL VALVE BOXES, MANHOLES, ETC. IN CONCRETE PAVEMENT AREAS SHALL BE ISOLATED FROM THE CONCRETE PAVEMENT WITH EXPANSION JOINTS.
- ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8'-FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.
- THE CONTRACTOR SHALL MAKE NO CLAIMS AGAINST THE OWNER OR THE DESIGN CIVIL ENGINEER REGARDING ALLEGED INACCURACY OF CONSTRUCTION STAKES SET BY THE DESIGN CIVIL ENGINEER UNLESS ALL SURVEY STAKES SET BY THE DESIGN CIVIL ENGINEER ARE MAINTAINED INTACT AND CANNOT BE VERIFIED AS TO THEIR ORIGIN, ANY REMEDIAL WORK REQUIRED TO CORRECT ANY ITEM OF IMPROPER CONSTRUCTION WORK IN THIS DEVELOPMENT SHALL BE PERFORMED AT THE SOLE EXPENSE OF THE RESPONSIBLE CONTRACTOR OR SUBCONTRACTOR.
- ALL NEW PRIVATE UNDERGROUND UTILITIES (WATER LINES 3" AND LARGER, SEWER LINES, FIRE LINES AND STORM DRAIN LINES SHALL BE BEDDED WITH A.B.C., PER MAG SECTION 702, FROM 4" (MIN.) BELOW THE BOTTOM OF THE PIPE TO 12" (MIN.) ABOVE THE TOP OF THE PIPE.

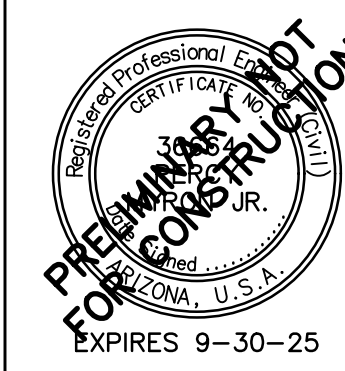
BENCHMARK:

FOUND CITY OF PHOENIX BENCHMARK #524 BEING A CITY OF PHOENIX BRASS CAP IN HANDHOLE LOCATED IN THE INTERSECTION OF WEST OSBORN ROAD AND NORTH 19TH AVENUE.

ELEVATION = 1104.947

(CITY OF PHOENIX DATUM)
(NGVD 29)

Q.S. # 15-24
KIVA # 98-8833
DSAP #
CPFL#



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METRO TECH - PH2
PHOENIX UNION HIGH SCHOOL DISTRICT

BIDDING SET

05-30-25
Revisions

450336B

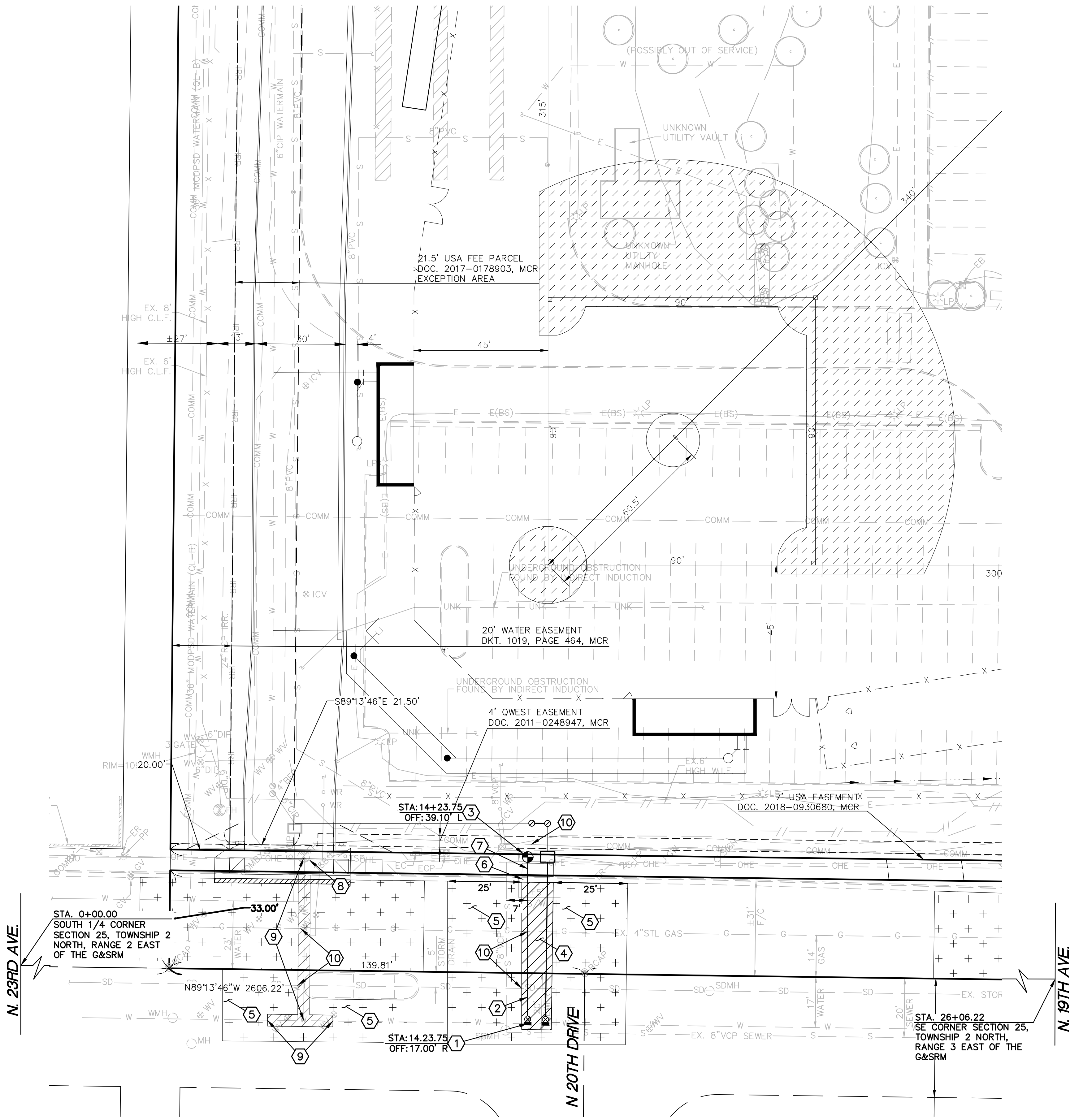
1 OF 2
FH-1

450336 - FL.DWG

LEGEND

- *BC 1098.04 EXISTING BACK OF CURB ELEVATION
- *BRC EXISTING BACK OF ROLL CURB ELEVATION
- *1100.98 EXISTING DECOMPOSED GRANITE ELEVATION
- *1099.36 EXISTING BRICK ELEVATION
- *1100.54 EXISTING CONCRETE ELEVATION
- *1098.04 EXISTING EDGE OF PAVEMENT ELEVATION
- *1097.82 EXISTING FACE OF CURB ELEVATION
- *1100.22 EXISTING FINISH FLOOR ELEVATION
- *FL 1099.03 EXISTING FLOW LINE ELEVATION
- *1098.76 EXISTING GUTTER ELEVATION
- *1100.46 EXISTING LANDSCAPE CURB ELEVATION
- *1097.46 EXISTING NATURAL GROUND ELEVATION
- *1098.85 EXISTING PAVEMENT ELEVATION
- *1099.76 EXISTING SPEEDBUMP ELEVATION
- *1100.54 EXISTING STAIR ELEVATION
- *1100.50 EXISTING SIDEWALK ELEVATION
- *1099.06 EXISTING TOP OF BERM ELEVATION
- *1097.65 EXISTING TRENCH DRAIN ELEVATION
- *1097.97 EXISTING TOE OF SLOPE ELEVATION
- *1099.27 EXISTING TOP OF WALL ELEVATION
- *1097.50 EXISTING WEEPHOLE ELEVATION
- *1100.16 EXISTING TOP OF CURB ELEVATION
- COMBX EXISTING COMMUNICATION BOX
- H EXISTING COMMUNICATION MANHOLE (WITH RIM ELEVATION)
- CR EXISTING COMMUNICATION RISER
- CT EXISTING CELL TOWER
- H EXISTING ELECTRICAL MANHOLE (WITH RIM ELEVATION)
- EB EXISTING ELECTRICAL BOX
- ER EXISTING ELECTRICAL RISER
- LP EXISTING LIGHTPOLE
- EBB EXISTING ELECTRICAL BREAKER BOX
- ECAB EXISTING ELECTRICAL CABINET
- ET EXISTING ELECTRICAL TRANSFORMER
- ICV EXISTING IRRIGATION CONTROL VALVE
- IDB EXISTING IRRIGATION DRIP BOX
- AD EXISTING ARE DRAIN (WITH RIM ELEVATION)
- BB EXISTING BUBBLER BOX (WITH RIM ELEVATION)
- DB EXISTING DRYWELL (WITH RIM ELEVATION)
- CB EXISTING CATCH BASIN (WITH RIM ELEVATION)
- SDCO EXISTING STORM DRAIN CLEANOUT
- GI EXISTING GREASE INTERCEPTOR (WITH RIM ELEVATION)
- SMH EXISTING SANITARY SEWER MANHOLE (WITH RIM ELEVATION)
- SSCO EXISTING SANITARY SEWER CLEANOUT
- WVLT EXISTING WATER VAULT
- H EXISTING WATER MANHOLE (WITH RIM ELEVATION)
- WR EXISTING WATER RISER
- WV EXISTING WATER VALVE
- DCV EXISTING DOUBLE CHECK VALVE
- BFP EXISTING BACKFLOW PREVENTOR
- FH EXISTING FIRE HYDRANT
- FDC EXISTING FIRE DEPARTMENT CONNECTION
- CLM EXISTING COLUMN
- PB EXISTING PIPE BOLLARD
- SIGN EXISTING SIGN
- CVLT EXISTING COMMUNICATION VAULT
- TREE EXISTING TREE
- E(BS) EXISTING ELECTRICAL LINE (BLUESTAKE)
- E EXISTING ELECTRICAL LINE (MAP DRAWN)
- COMM EXISTING COMMUNICATION LINE (MAP DRAWN)
- G EXISTING GAS LINE (MAP DRAWN)
- IRR EXISTING IRRIGATION LINE (MAP DRAWN)
- W EXISTING WATER LINE (MAP DRAWN)

- SD EXISTING STORM DRAIN LINE (MAP DRAWN)
- S EXISTING SEWER LINE (MAP DRAWN)
- PROPOSED SAWCUT
- PROPOSED CONCRETE
- PROPOSED PAVEMENT RESTORATION



PUBLIC FIRE LINE CONSTRUCTION NOTES:

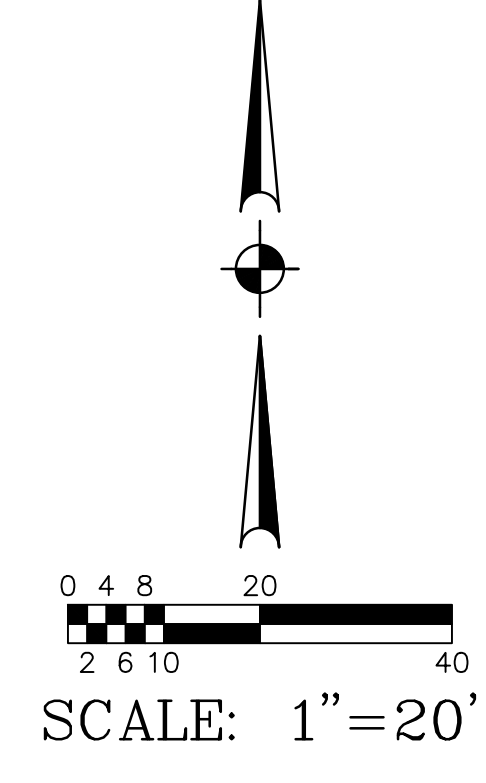
- 1 INSTALL 10" X 6" TAPPING SLEEVE AND 8" GATE VALVE WITH VALVE BOX AND COVER (MAG STANDARD DETAIL NO.'S 340 AND CITY OF PHOENIX DETAIL NO.'S, P1391-1, TYPE 'A' AND 270).
- 2 INSTALL 6" POLYWRAPPED DUCTILE IRON PIPE (PRESSURE CLASS 350, MINIMUM THICKNESS CLASS 50) WATER LINE)
- 3 INSTALL SALVAGED FIRE HYDRANT (CITY OF PHOENIX STANDARD DETAIL NO P1360). REPAINT AND EST THE FIRE HYDRANT PER CITY OF PHOENIX REQUIREMENTS.
- 4 SAWCUT, REMOVE AND REPLACE EXISTING A.C. PAVEMENT (MAG SPECIFICATION SECTION 336 AND CITY OF PHOENIX STANDARD DETAIL NO. P1200 OR MATCH EXISTING, WHICHEVER IS GREATER).
- 5 MILL AND OVERLAY THE EXISTING PAVEMENT WITH CRACK AND MICRO-SEAL PER CITY OF PHOENIX STREET CUT POLICY (TRT 00164 AND ORDINANCE G-6308).
- 6 SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE VERTICAL CURB AND GUTTER TO NEAREST JOINT, OR AS DIRECTED BY CITY INSPECTOR (MAG STANDARD DETAIL NO. 220-1, TYPE 'A'). BACKFILL WITH HALF SACK SLURRY.
- 7 SAWCUT, REMOVE AND REPLACE EXISTING CONCRETE SIDEWALK TO NEAREST JOINT, OR AS DIRECTED BY THE CITY INSPECTOR (CITY OF PHOENIX STANDARD DETAIL P1230). BACKFILL WITH HALF SACK SLURRY.
- 8 REMOVE AND SALVAGE EXISTING FIRE HYDRANT FOR LATER REINSTALLATION.
- 9 REMOVE EXISTING WATER LINE AND EXISTING WATER VALVE UP TO THE WATER MAIN. REMOVE 10LF IN EACH DIRECTION OF THE WATER MAIN OR AS NEEDED TO REMOVE THE EXISTING TEE. A NEW SECTION OFF DUCTILE IRON WATER MAIN PIPE WILL BE REINSTALLED IN PLACE OF THE REMOVED WATER MAIN (CITY OF PHOENIX STANDARD DETAIL NO. P1344).
- 10 POT HOLE AND FIELD VERIFY ELEVATION AND LOCATION PRIOR TO CONSTRUCTION. MAINTAIN A MINIMUM 12" CLEARANCE BETWEEN OUTSIDE OF NEW FIRE LINE AND OUTSIDE OF DRY UTILITIES

UNDERGROUND UTILITY TRACER WIRE NOTE:

ALL NEW UNDERGROUND FACILITIES/UTILITIES SHALL BE INSTALLED WITH A DETECTABLE UNDERGROUND LOCATION DEVICE. INSTALL A #18 INSULATED TRACER WIRE SECURELY ATTACHED TO EACH UTILITY AT 8- FEET ON CENTER. 12" OF TRACER WIRE SHALL BE ACCESSIBLE ABOVE GRADE AT THE TERMINATION AND SHALL BE SECURELY ATTACHED AT THAT POINT. THE CONTRACTOR SHALL VERIFY WHICH COLOR TO USE FOR STORM DRAIN, WATER, SEWER, ETC., WITH THE CITY OF PHOENIX AND APPROPRIATE UTILITY COMPANIES. THE CONTRACTOR SHALL INCLUDE ALL COSTS ASSOCIATED WITH THIS REQUIREMENT IN THEIR BID.

NOTE:
THRUST BLOCKS WILL NOT BE PERMITTED IN THE CITY OF PHOENIX RIGHT-OF-WAY. JOINT RESTRAINT PER M.A.G. STANDARD DETAILS 302-1, 302-2, 303-1, AND 303-2 SHALL BE USED WHEN BENDS ARE ALLOWED IN THE CITY OF PHOENIX RIGHT-OF-WAY

NOTE:
ALL BEDDING IN CITY OF PHOENIX RIGHT-OF-WAY TO BE INSTALLED PER CITY REQUIREMENTS.



DLRGROUP

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