

Approval only grant permission for work within the public way or utility easement granted to the city.

The permittee shall be fully responsible for the cost and actual performance of all work in the public way. The permittee shall do all work in conformance with any and all engineering regulations, construction specifications, and design standards adopted by the city. These standards shall apply to all work in the public way unless otherwise indicated in the permit.

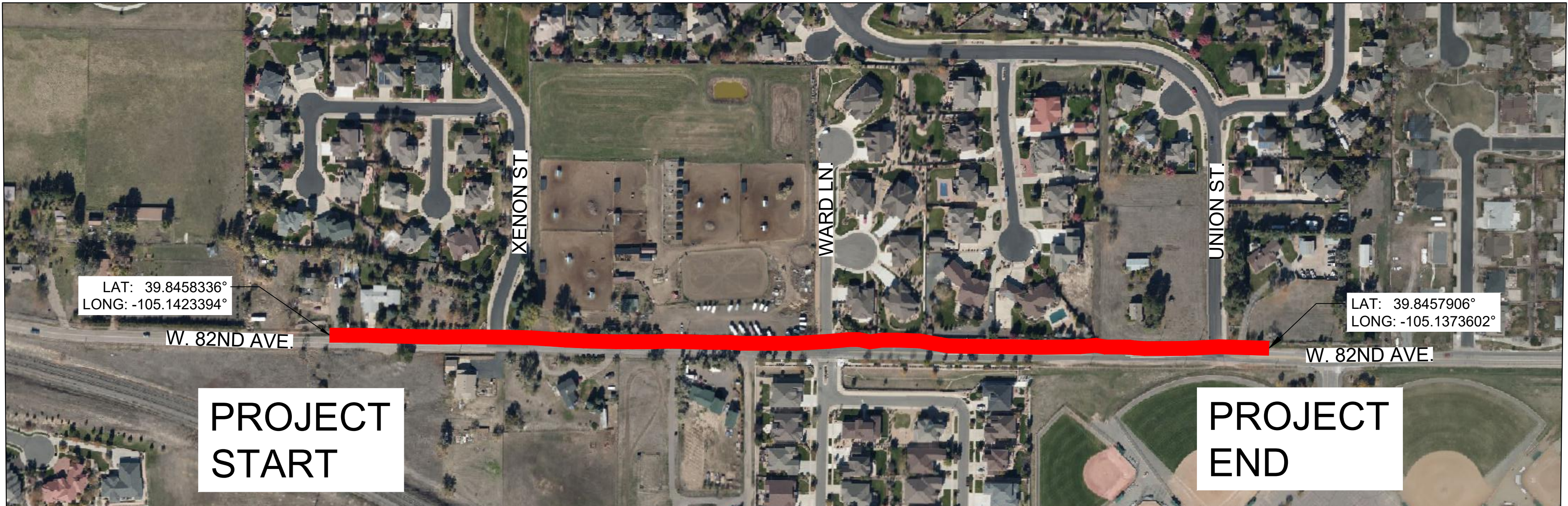
Applicant shall coordinate any work on private property separately. Bore pits, handholes, pull boxes, pedestals or other permanent private elements shall be located within a landscaped area unless otherwise indicated in the permit.

BY jclark

DATE 09/10/2021

MCI METRO ACCESS TRANSMISSION SERVICES

OUTSIDE PLANT CONSTRUCTION
FIBER OPTIC CABLE ROUTE
DENVER CO ONE FIBER PROJECT
PROJECT #: 073728-004
SITE NFID: TBD
SITE NAME: SOD HOUSE C - SEC 1
12161 W 82ND AVE
ARVADA, CO



Contact must be made between the on-site supervisor and assigned City Inspector 24hrs prior to starting work. Follow approved traffic control plans. Maintain a minimum distance of 60" horizontally and 24" vertically from all COA utilities located in the bore path. Permanent restoration work must be completed within 7 days of placing backfill material. Pothole all COA utilities located in the bore prior to bore operations to ensure a conflict free bore. All work shall comply with COA Eng Standards and Specs. TYP.

Approval only grants permission for work within Right-of-way and Utility Easements granted to COA. Applicant shall coordinate work on private property



The permittee shall be fully responsible for the cost and actual performance of all work in the public way. The permittee shall do all work in conformance with any and all engineering regulations, construction specifications, and design standards adopted by the city. These standards shall apply to all work in the public way unless otherwise indicated in the permit



Unless otherwise approved, bore pits, handholes, pull boxes, pedestals or other permanent elements shall be located within a landscaped area.



Potholing within the sidewalk will require removal and replacement of the entire section. Potholing within asphalt will require a patch as determine by COA



THIS OSP PROJECT REQUIRES:

DESCRIPTION	UNIT	QTY.
DIRECTIONAL BORE	L. FT.	2173
PL. NEW UG 864 CNT FOC	L. FT.	2173
PL. (1) 2" HDPE ORANGE CONDUIT	L. FT.	2173
PL. NEW 30" X 60" X 30" HANDHOLE	EACH	2
PL. 4'X4' BORE PIT	EACH	10
REMOVE & REPLACE LANDSCAPE	SQ. FT.	80
PL. UG 864 CNT FIBER COILS	L. FT.	100
PL. TRACE-SAFE	L. FT.	2173

DRAWING STATUS: CONSTRUCTION

PREPARED FOR



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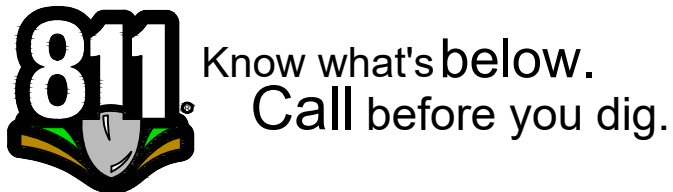
STEVE VALDEZ
ENGINEER III, SOUTHWEST REGION
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24055 E 6TH AVE
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WYCO FIELD SERVICES, LLC
7935 E PRENTICE AVE SUITE 301
GREENWOOD VILLAGE, CO 80111

PREPARED BY



NOTE: UTILITY LOCATIONS ARE APPROXIMATE ONLY. ALL UTILITIES MUST BE LOCATED PRIOR TO ANY EXCAVATION ACTIVITIES. DESIGN LOCATION IS APPROXIMATE. FINAL ALIGNMENT TO BE REVIEWED AND APPROVED BY THE CONSTRUCTION INSPECTOR FOLLOWING UTILITY DESIGN LOCATION IS APPROXIMATE. FINAL ALIGNMENT TO BE REVIEWED AND APPROVED BY THE CONSTRUCTION INSPECTOR FOLLOWING UTILITY LOCATES.

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0	06/11/2021	INITIAL RELEASE	JET
REV	DATE	DESCRIPTION	BY

PROJECT LOCATION:

SOD HOUSE - C
SECTION 1

PROJECT MGR:	---
TELEPHONE:	---
ENGINEER:	---
TELEPHONE:	---

SHEET TITLE:

TITLE
SHEET

SHEET NUMBER:

T1 OF 19



CITY OF ARVADA GENERAL CONSTRUCTION NOTES

GENERAL NOTES

- A. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE CITY OF ARVADA “ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS”, LATEST EDITION, UNLESS OTHERWISE SPECIFIED HEREIN.
- B. ALL CONTRACTORS AND SUBCONTRACTORS SHALL BE LICENSED WITH THE CITY OF ARVADA ENGINEERING DIVISION.
- C. ALL WORK WILL REQUIRE A CITY OF ARVADA ENGINEERING DIVISION PUBLIC IMPROVEMENT PERMIT PRIOR TO THE START OF CONSTRUCTION. ALL CONTRACTORS AND SUBCONTRACTORS MUST OBTAIN A SEPARATE PERMIT FOR THE WORK BEING COMPLETED BY THE PARTICULAR CONTRACTOR OR SUBCONTRACTOR. ANY CONSTRUCTION WITHIN THE COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) RIGHT-OF-WAY WILL REQUIRE A CDOT CONSTRUCTION PERMIT PRIOR TO ANY WORK IN THEIR RIGHT-OF-WAY.
- D. ALL CONTRACTORS AND SUBCONTRACTORS SHALL HAVE A SET OF APPROVED DRAWINGS SIGNED BY THE CITY ENGINEER OR DESIGNEE AND A PRINTED COPY OF THE CURRENT CITY OF ARVADA “ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS” ON SITE AT ALL TIMES.
- E. THE CITY OF ARVADA ENGINEERING DIVISION SHALL BE NOTIFIED (PHONE # 720-8987640) A MINIMUM OF 24 HOURS PRIOR TO THE START OF ANY CONSTRUCTION.
- F. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR BURIED UTILITIES. THE CONTRACTOR IS RESPONSIBLE TO VERIFY THE LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION AND TO PROTECT THEM DURING CONSTRUCTION.
- G. THE CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY INCLUDING, BUT NOT LIMITED TO, TRENCH EXCAVATION AND SHORING, TRAFFIC CONTROL AND SECURITY.
- H. BENCHMARK LOCATION, ELEVATION AND DATUM ARE AS NOTED.
- I. AS-BUILT DRAWINGS SHOWING ALL CHANGES FROM THE APPROVED CONSTRUCTION DRAWINGS SHALL BE SUBMITTED TO THE CITY ENGINEER OR DESIGNEE PRIOR TO INITIATION OF THE REQUIRED TWO YEAR WARRANTY PERIOD. UTILITY AS-BUILTS SHALL INCLUDE STATIONING OF ALL FITTINGS, SERVICES AND PERTINENT ELEVATIONS. CERTIFICATES OF OCCUPANCY FOR ANY BUILDINGS OR STRUCTURES WITHIN THE DEVELOPMENT WILL NOT BE ISSUED UNTIL THE AS-BUILTS HAVE BEEN RECEIVED, REVIEWED AND APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION.
- J. A CITY OF ARVADA TAX CERTIFICATION FORM MUST BE COMPLETED BY ALL CONTRACTORS AND SUBCONTRACTORS PERFORMING WORK ON THIS PROJECT. THIS FORM DETAILS ALL MATERIALS WHICH HAVE BEEN INCLUDED IN THE WORK BY CONTRACTORS AND SUBCONTRACTORS. COPIES OF ALL PAID INVOICES FOR MATERIALS SHALL BE ATTACHED TO THE FORM. CERTIFICATES OF OCCUPANCY FOR ANY BUILDINGS OR STRUCTURES WITHIN THE DEVELOPMENT WILL NOT BE ISSUED UNTIL THIS FORM HAS BEEN RECEIVED, REVIEWED AND APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION.
- K. OWNER/DEVELOPER SHALL OBTAIN A STORMWATER CONSTRUCTION PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY CONTROL DIVISION, PRIOR TO CLEARING, GRADING, OR EXCAVATING A SITE OF ONE (1) ACRE OR MORE OR LESS THAN ONE ACRE AND PART OF A LARGER DEVELOPMENT. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO THE START OF CLEARING, GRADING OR EXCAVATING OF THE SITE. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.

- L. CONTRACTOR SHALL OBTAIN A COLORADO STATE CONSTRUCTION DEWATERING DISCHARGE PERMIT FROM THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT FOR ALL AREAS WHERE DEWATERING IS REQUIRED FROM AN EXCAVATION AND WATER IS DISCHARGED INTO A STORM SEWER, CHANNEL, IRRIGATION DITCH OR ANY WATERS OF THE UNITED STATES. A COPY OF THE APPROVED PERMIT MUST BE SUBMITTED TO THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO THE START OF ANY DEWATERING. A COPY OF THE APPROVED PERMIT MUST ALSO BE AVAILABLE ON THE PROJECT SITE AT ALL TIMES DURING CONSTRUCTION.
- M. ALL CURB RAMPS SHALL COMPLY WITH THE LATEST CITY OF ARVADA AND ADA STANDARD. CONTRACTOR TO CHECK WITH THE CITY OF ARVADA ENGINEERING DIVISION TO VERIFY THE LATEST CURB RAMP STANDARD PRIOR TO CONSTRUCTION OF ANY RAMP.
- N. ALL MATERIALS AND WORKMANSHIP SHALL BE SUBJECT TO INSPECTION BY THE CITY OF ARVADA ENGINEERING DIVISION. THE CITY RESERVES THE RIGHT TO ACCEPT OR REJECT ANY SUCH MATERIALS AND WORKMANSHIP THAT DOES NOT CONFORM TO ITS “ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS”.
- O. A PLAN FOR TRAFFIC CONTROL DURING CONSTRUCTION SHALL BE SUBMITTED TO THE CITY OF ARVADA ENGINEERING DIVISION FOR ACCEPTANCE WITH THE PUBLIC IMPROVEMENTS PERMIT APPLICATION. A PUBLIC IMPROVEMENTS CONSTRUCTION PERMIT WILL NOT BE ISSUED WITHOUT AN APPROVED TRAFFIC CONTROL PLAN FOR TRAFFIC CONTROL ON EXISTING ROADS DURING CONSTRUCTION.

95.7.2 STREET

- A. CONTRACTOR SHALL HAVE ON SITE A COPY OF THE CITY OF ARVADA APPROVED SUBGRADE SOILS AND PAVEMENT DESIGN REPORT SHOWING MINIMUM REQUIRED SUBGRADE PREPARATION REQUIREMENTS AND MINIMUM REQUIRED PAVEMENT THICKNESSES.
- B. ALL TRENCH BACKFILL AND SUBGRADE PREPARATION SHALL BE TESTED TO ENSURE COMPLIANCE WITH CITY OF ARVADA STANDARDS AND SHALL BE TESTED AT CITY REQUIRED FREQUENCIES BY A CITY APPROVED PRIVATE SOILS TESTING FIRM. TEST RESULTS SHALL BE SUBMITTED TO, REVIEWED, AND APPROVED BY, THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO INSTALLING BASE COURSE, ASPHALT OR CONCRETE ON PREPARED SUBGRADE. ALL BASE COURSE DENSITY SHALL ALSO BE TESTED BY THE PRIVATE SOILS FIRM AT CITY REQUIRED FREQUENCIES TO ENSURE COMPLIANCE WITH CITY OF ARVADA REQUIREMENTS. BASE COURSE TEST RESULTS SHALL ALSO BE APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO INSTALLING PAVEMENT. ALL CONCRETE AND ASPHALT PLACED SHALL BE TESTED IN ACCORDANCE WITH CITY OF ARVADA MINIMUM MATERIALS TESTING STANDARDS. TEST RESULTS SHALL BE REVIEWED AND APPROVED BY THE CITY OF ARVADA ENGINEERING DIVISION PRIOR TO INITIATION OF THE REQUIRED TWO YEAR WARRANTY PERIOD.
- C. THE SUBGRADE MATERIAL SHALL BE REMOVED TO A DEPTH REQUIRED BY THE CITY OF ARVADA ACCORDING TO INFORMATION OBTAINED FROM LABORATORY TESTS AND/OR AS REQUIRED IN THE PAVEMENT DESIGN REPORT. ADDITIVES OR APPROVED MATERIAL MAY BE REQUIRED IF THE NATIVE MATERIAL IS UNSATISFACTORY. THE SUBGRADE SHALL BE COMPACTED TO A MINIMUM DENSITY DETERMINED IN ACCORDANCE WITH AASHTO DESIGNATION T180 OR T99 AND IN ACCORDANCE WITH CDOT STANDARD SPECIFICATIONS SECTION 203.07.

- D. THE CONTRACTOR SHALL PROOF ROLL ALL SUBGRADE AND BASE COURSE IN A

MANNER ACCEPTABLE TO THE CITY OF ARVADA IN ACCORDANCE WITH THE CITY OF ARVADA “ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS”. PROOF ROLLING SHALL BE INSPECTED AND ACCEPTED BY THE CITY PRIOR TO INSTALLATION OF PAVEMENT AND/OR CONCRETE FLATWORK.

- E. ALL CONCRETE CURB, GUTTER, SIDEWALK AND OTHER FLATWORK WITHIN THE CITY RIGHT OF WAY SHALL BE MINIMUM 6” THICKNESS. CROSSPANS SHALL BE MINIMUM 8” THICKNESS AND MINIMUM 8 FOOT WIDTH. ALL CONCRETE SHALL BE MINIMUM 4000 PSI DESIGN STRENGTH REINFORCED WITH 1.5 LBS/CY FIBERMESH IN ACCORDANCE WITH THE CITY OF ARVADA “ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS”.


95.7.3 IRRIGATION

- A. CONTRACTOR IS TO NOTIFY AFFECTED IRRIGATION COMPANY A MINIMUM OF 24 HOURS PRIOR TO BEGINNING ANY CONSTRUCTION IN IRRIGATION EASEMENTS OR ON IRRIGATION DITCHES.
- B. ALL IRRIGATION PIPE JOINTS SHALL BE WATERTIGHT AND PASS A LOW AIR PRESSURE TEST.

95.7.4 UTILITIES


- A. CONTRACTOR SHALL NOTIFY ALL AFFECTED PARTIES, CITY OF ARVADA UTILITY AND ENGINEERING DIVISIONS, A MINIMUM OF 24 HOURS PRIOR TO ANY WATER OR SEWER SERVICE INTERRUPTION.
- B. CONTRACTOR IS TO COORDINATE THE OPERATION OF ALL WATER VALVES, FIRE HYDRANTS, AND OTHER APPURTENANCES WITH THE CITY'S WATER OPERATIONS DIVISION THROUGH THE CITY'S ENGINEERING INSPECTOR.
- C. ALL FIRE HYDRANT BRANCH PIPE SHALL BE CLASS 200 AWWA C900 PVC OR CLASS 150 AWWA C909 PVC. ALL FIRE LINES TO BUILDINGS WITH INTERIOR SPRINKLER SYSTEMS SHALL BE CLASS 200 AWWA C900 PVC PIPE OR CLASS 200 AWWA C909 PVC PIPE ONLY.
- D. ALL METALLIC FITTINGS SHALL BE WRAPPED WITH MINIMUM 8 MIL THICKNESS POLYETHYLENE ENCASEMENT.
- E. ALL PVC WATER MAINS SHALL BE INSTALLED WITH WHITE #12 TYPE UF OR USE CABLE SINGLE COPPER CONDUCTOR AS A TRACER WIRE SPIRALLY WRAPPED AROUND THE PIPE. TRACER WIRE TO EXTEND FROM MAIN TO A CATHODIC PROTECTION BOX LOCATED ON THE RIGHT SIDE OF ALL FIRE HYDRANTS. TRACER WIRE SHALL BE CONNECTED TO EXISTING TRACER WIRE WHERE POSSIBLE. WHERE NO TRACER WIRE EXISTS, ENDS OF TRACER WIRE SHALL BE STRIPPED AND GROUNDED INTO NATIVE SOIL A MINIMUM OF 12” DEEP.
- F. ALL METER PITS SHALL BE 24 INCH DIAMETER CONCRETE OR PLASTIC IN ACCORDANCE WITH SECTION 30 OF THE CITY OF ARVADA “ENGINEERING CODE OF STANDARDS AND SPECIFICATIONS FOR THE DESIGN AND CONSTRUCTION OF PUBLIC IMPROVEMENTS”.
- G. STORM, SANITARY AND WATER MANHOLE COVERS SHALL SAY "CITY OF ARVADA STORM, WATER OR SANITARY” WHERE APPLICABLE IN ACCORDANCE WITH THE CITY'S STANDARD LID DETAIL.
- H. BLOW-OFFS, BOTH PERMANENT AND TEMPORARY, SHALL BE IN ACCORDANCE WITH CITY OF ARVADA STANDARD DETAIL DRAWING W-9.
- I. ALL SANITARY SEWER MAINS INSTALLED SHALL BE HIGH PRESSURE JET CLEANED AFTER COMPLETION OF THE FINAL LIFT OF ASPHALT PLACEMENT AND PRIOR TO REQUIRED TELEVISION INSPECTION BY THE CITY'S WASTEWATER DIVISION.

PREPARED FOR



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WYCO
FIELD SERVICES

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REV	DATE	DESCRIPTION		BY

PROJECT LOCATION:

SOD HOUSE - C
SECTION 1

PROJECT MGR: ---

TELEPHONE: ---

ENGINEER: ---

TELEPHONE: ---

SHEET TITLE:

GENERAL
NOTES

SHEET NUMBER:

G1 OF 19



CITY OF ARVADA GENERAL CONSTRUCTION NOTES

95.7.5 EROSION CONTROL

- A. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE MET ON SITE AND PROVIDED WITH A STORMWATER MANAGEMENT PLAN AFTER INSTALLATION OF TEMPORARY BEST MANAGEMENT PRACTICES (BMPS), BUT BEFORE CONSTRUCTION OR GRADING BEGINS.
- B. THERE SHALL BE NO EARTH-DISTURBING ACTIVITY OUTSIDE THE LIMITS DESIGNATED IN THE ACCEPTED PLANS.
- C. ALL REQUIRED PERIMETER SILT AND CONSTRUCTION FENCING SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITY (STOCKPILING, STRIPPING, GRADING, ETC.). ALL OTHER REQUIRED EROSION CONTROL MEASURES SHALL BE INSTALLED AT THE APPROPRIATE TIME IN THE CONSTRUCTION SEQUENCE AS INDICATED IN THE APPROVED PROJECT SCHEDULE, CONSTRUCTION PLANS, AND STORMWATER MANAGEMENT PLAN.
- D. AT ALL TIMES DURING CONSTRUCTION, THE DEVELOPER SHALL BE RESPONSIBLE FOR PREVENTING AND CONTROLLING ON-SITE EROSION INCLUDING KEEPING THE PROPERTY SUFFICIENTLY WATERED SO AS TO MINIMIZE WINDBLOWN SEDIMENT. THE DEVELOPER SHALL ALSO BE RESPONSIBLE FOR INSTALLING AND MAINTAINING ALL EROSION CONTROL FACILITIES SHOWN HEREIN.
- E. PRE-DISTURBANCE VEGETATION SHALL BE PROTECTED AND RETAINED WHEREVER POSSIBLE. REMOVAL OR DISTURBANCE OF EXISTING VEGETATION SHALL BE LIMITED TO THE AREA(S) REQUIRED FOR IMMEDIATE CONSTRUCTION OPERATIONS, AND FOR THE SHORTEST PRACTICAL PERIOD OF TIME.
- F. ALL SOILS EXPOSED DURING LAND DISTURBING ACTIVITY (STRIPPING, GRADING, UTILITY INSTALLATIONS, STOCKPILING, FILLING, ETC.) SHALL BE KEPT IN A ROUGHENED CONDITION BY RIPPING OR DISKING ALONG LAND CONTOURS UNTIL MULCH, VEGETATION, OR OTHER PERMANENT EROSION CONTROL BMPS ARE INSTALLED. NO DISTURBED AREAS, EXCEPT THOSE WITHIN THE PROJECT STREET RIGHTS-OF-WAY, SHALL REMAIN EXPOSED FOR MORE THAN THIRTY (30) DAYS BEFORE TEMPORARY OR PERMANENT EROSION CONTROL (E.G. SEED/MULCH, LANDSCAPING, ETC.) IS INSTALLED, UNLESS OTHERWISE APPROVED BY THE CITY OF ARVADA STORMWATER INSPECTOR.
- G. IN ORDER TO MINIMIZE EROSION POTENTIAL, ALL TEMPORARY (STRUCTURAL) EROSION CONTROL MEASURES SHALL:

1. BE INSPECTED AT A MINIMUM OF ONCE EVERY FOURTEEN (14) DAYS AND AFTER EACH SIGNIFICANT STORM EVENT AND REPAIRED OR RECONSTRUCTED AS NECESSARY IN ORDER TO ENSURE THE CONTINUED PERFORMANCE OF THEIR INTENDED FUNCTION.

2. REMAIN IN PLACE UNTIL SUCH TIME AS ALL THE SURROUNDING DISTURBED AREAS ARE SUFFICIENTLY STABILIZED. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.

3. BE REMOVED WHEN THEY ARE NO LONGER FUNCTIONAL OR AFTER THE SITE HAS BEEN SUFFICIENTLY STABILIZED AS DETERMINED BY THE STORMWATER INSPECTOR. THE CITY OF ARVADA STORMWATER INSPECTOR MUST BE NOTIFIED PRIOR TO REMOVAL.

H. WHEN TEMPORARY EROSION CONTROL MEASURES ARE REMOVED, THE DEVELOPER SHALL BE RESPONSIBLE FOR THE CLEAN UP AND REMOVAL OF ALL SEDIMENT AND DEBRIS FROM ALL DRAINAGE INFRASTRUCTURE AND OTHER PUBLIC FACILITIES.

I. THE CONTRACTOR SHALL IMMEDIATELY CLEAN UP ANY CONSTRUCTION MATERIALS INADVERTENTLY DEPOSITED ON EXISTING STREETS, SIDEWALKS, OR OTHER PUBLIC RIGHTS OF WAY, AND MAKE SURE STREETS AND WALKWAYS ARE CLEANED AT THE END OF EACH WORKING DAY.

J. ALL SOIL STOCKPILES SHALL NOT BE PLACED WITHIN ONE HUNDRED (100)

FEET OF A DRAINAGEWAY, WHERE POSSIBLE, AND SHALL BE PROTECTED FROM SEDIMENT TRANSPORT BY APPROPRIATE EROSION CONTROL METHODS. ANY SOIL STOCKPILE THAT WILL BE DORMANT FOR OVER THIRTY (30) DAYS SHALL BE SEEDED.

K. THE STORMWATER VOLUME CAPACITY OF DETENTION PONDS WILL BE RESTORED AND STORM SEWER LINES WILL BE CLEANED UPON COMPLETION OF THE PROJECT AND BEFORE TURNING THE MAINTENANCE OVER TO THE PROPERTY OWNER OR HOMEOWNERS ASSOCIATION (HOA).

L. CITY ORDINANCE REQUIREMENTS MAKE IT UNLAWFUL TO DISCHARGE OR ALLOW THE DISCHARGE OF ANY POLLUTANT OR CONTAMINATED WATER FROM CONSTRUCTION SITES. POLLUTANTS INCLUDE, BUT ARE NOT LIMITED TO DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, OIL AND GAS PRODUCTS, LITTER, AND SANITARY WASTE. THE DEVELOPER SHALL AT ALL TIMES TAKE WHATEVER MEASURES ARE NECESSARY TO ASSURE THE PROPER CONTAINMENT AND DISPOSAL OF POLLUTANTS ON THE SITE IN ACCORDANCE WITH ANY AND ALL APPLICABLE LOCAL, STATE, AND FEDERAL REGULATIONS.

M. A DESIGNATED AREA SHALL BE PROVIDED ON SITE FOR CONCRETE TRUCK CHUTE WASHOUT. THE AREA SHALL BE CONSTRUCTED SO AS TO CONTAIN WASHOUT MATERIAL AND LOCATED AT LEAST FIFTY (50) FEET AWAY FROM ANY WATERWAY DURING CONSTRUCTION. UPON COMPLETION OF CONSTRUCTION ACTIVITIES, THE CONCRETE WASHOUT MATERIAL WILL BE REMOVED AND PROPERLY DISPOSED OF PRIOR TO THE AREA BEING RESTORED.

N. MASONRY ACTIVITIES WILL BE CONTAINED WITH APPROPRIATE LOT-SPECIFIC BMPS, SUCH AS STOCKPILE PERIMETER CONTROL AND BERMED WASHOUT PITS. ALL WASTE PRODUCTS FROM MASONRY ACTIVITIES WILL BE REMOVED AND DISPOSED OF PROPERLY.

O. TO ENSURE THAT SEDIMENT DOES NOT MOVE OFF OF INDIVIDUAL LOTS SEDIMENT/EROSION CONTROL BMPS SHALL BE INSTALLED AND MAINTAINED AT ONE OR MORE OF THE FOLLOWING LOCATIONS UNTIL THE LOTS ARE LANDSCAPED.

1. BELOW ALL GUTTER DOWNSPOUTS.

2. OUT TO DRAINAGE SWALES.

3. ALONG LOT PERIMETER.

4. OTHER LOCATIONS, IF NEEDED.

P. A VEHICLE TRACKING PAD SHALL BE INSTALLED WHEREVER IT IS NECESSARY FOR CONSTRUCTION EQUIPMENT INCLUDING BUT NOT LIMITED TO PERSONAL VEHICLES EXITING EXISTING UNPAVED AREAS ONTO ROADWAYS. NO EARTHEN MATERIALS, I.E., STONE, DIRT, ETC., SHALL BE PLACED IN THE CURB & GUTTER OR ROADWAY AS A RAMP TO ACCESS TEMPORARY STOCKPILES, CONSTRUCTION MATERIALS AND/OR BUILDING SITES.

Q. CONDITIONS IN THE FIELD MAY WARRANT EROSION CONTROL MEASURES IN ADDITION TO WHAT IS SHOWN ON THESE PLANS. THE DEVELOPER SHALL IMPLEMENT WHATEVER MEASURES ARE DETERMINED NECESSARY, AS DIRECTED BY THE CITY OF ARVADA.

95.7.6 MATERIALS QUANTITIES LIST
(TO APPEAR ON THE COVER SHEET OF ALL CONSTRUCTION PLANS)

1. ALL PIPELINE LINEAR FOOTAGE, SIZE AND TYPE (WATER, SANITARY, STORM AND IRRIGATION PIPES)'

2. ALL WATER MAIN FITTING QUANTITY, SIZE AND TYPE (BENDS, TEES, PLUGS, ETC.).

3. WATER MAIN AIR/VACUUM VALVE ASSEMBLY QUANTITY.

4. WATER MAIN FIRE HYDRANT ASSEMBLY QUANTITY.

5. WATER MAIN BLOWOFF ASSEMBLY (PERMANENT AND TEMPORARY) QUANTITY.

6. WATER MAIN VALVES, QUANTITY, SIZE AND TYPE OF EACH (INCLUDING HYDRANT VALVES).

7. CONNECTIONS TO EXISTING FACILITY (TOTAL FOR EACH WATER, SANITARY, STORM AND IRRIGATION PIPELINES).

8. TOTAL NUMBER OF WATER AND SANITARY SERVICES.

9. SANITARY MANHOLE QUANTITY AND DIAMETER.

10. STORM MANHOLE QUANTITY AND DIAMETER.

11. STORM INLETS QUANTITY, TYPE AND SIZE.

12. IRRIGATION JUNCTION BOXES AND CONTROL STRUCTURES, QUANTITY AND TYPE.

13. CONCRETE CURB AND GUTTER, QUANTITY (LF) AND TYPE OF EACH.

14. CONCRETE SIDEWALK QUANTITY (LF) AND WIDTH.

15. CONCRETE CURB RAMPS, QUANTITY AND TYPE OF EACH

16. CONCRETE CROSSPAN, QUANTITY (LF) AND WIDTH.

17. ASPHALT SURFACING QUANTITY (SY).

18. LENGTH OF EACH STREET (FEET).

19. OTHER MATERIAL QUANTITIES REQUIRED AS PER SPECIFIC CONSTRUCTION PLAN

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G2 OF 19

MCI OUTSIDE PLANT FOCUS

FIBER OPTIC CABLE UNCOVERING SYSTEM

1. THE TITLE OF THIS PROGRAM, F.O.C.U.S., AN ACRONYM FOR "FIBER OPTIC CABLE UNCOVERING SYSTEM," WAS SELECTED TO REMIND EVERYONE INVOLVED WITH WORKING NEAR MCI'S ACTIVE FIBER OPTIC SYSTEMS TO FOCUS ON PROTECTING THE FACILITIES. IF, DURING THE COURSE OF THE PROJECT, YOU NOTICE ANY ACTIVITY WHICH MAY JEOPARDIZE THE MCI OSP FACILITIES, IT IS YOUR DUTY TO STOP THE WORK AND RE-F.O.C.U.S.
2. F.O.C.U.S. RULES MUST BE FOLLOWED ON ALL MCI PROJECTS INVOLVING WORK ON OR NEAR MCI OSP FACILITIES. SAFETY IS MCI'S NUMBER ONE PRIORITY; EVERYONE MUST REFRAIN FROM UNSAFE AND IMPROPER PRACTICES.
3. REVIEW OF F.O.C.U.S. IS MANDATORY AT EVERY PRE-BID, PRE-CONSTRUCTION SITE MEETING AND DAILY TAILGATE MEETING. F.O.C.U.S. DISCUSSION MUST INCLUDE SITE-SPECIFIC HISTORY, UNIQUE PROBLEMS, FACILITY CONFIGURATIONS THAT MAY BE ENCOUNTERED, AND PAST ERRORS. "THOSE WHO DO NOT LEARN FROM HISTORY ARE DOOMED TO REPEAT IT." DO NOT LET THIS HAPPEN TO YOU.
4. ANY WORK NEAR OR REQUIRING HANDLING OF MCI OUTSIDE PLANT FACILITIES CAN ONLY BE PERFORMED WITH AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE PRESENT – THIS MEANS OUT OF HIS OR HER VEHICLE AND DIRECTLY MONITORING THE SYSTEM. THE REPRESENTATIVE MUST HAVE A PROPERLY OPERATING CABLE LOCATOR CHECKED FOR ACCURACY EVERY DAY PRIOR TO COMMENCEMENT OF WORK (COMPARISON OF LINE AND DEPTH READINGS TO ACTUAL LINE AND DEPTH OF THE CABLE).
5. LOCATE AND POTHOLE REQUIREMENTS:

• PRIOR TO ANY EXCAVATION, THE MCI EMPLOYEE OR CONTRACT REPRESENTATIVE MUST VERIFY THE INITIAL LOCATE MARKS COMPLETED BY MCI OPERATIONS. DO NOT TRUST LOCATE RESULTS COMPLETED BY OTHERS! THE MCI OR CONTRACT REPRESENTATIVE MUST LOCATE THE CABLE RUNNING LINE BY MAKING AT LEAST ONE PASS IN EACH DIRECTION. LOCATE RESULTS MUST THEN BE COMPARED WITH PREVIOUS MARKS AND THE AS-BUILTS.

• IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 3 FEET OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE (ALL POTHOLE MUST BE COMPLETED BY HAND DIGGING OR VACUUM EXCAVATION) A MINIMUM OF EVERY 15 FT., THEN EXPOSE THE ENTIRE LENGTH OF THE CABLE BY HAND DIGGING OR VACUUM EXCAVATION.

• IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 5 FEET (BUT NOT CLOSER THAN 3 FEET) OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 15 FT.

• IF THE PROPOSED WORK INVOLVES DIGGING OR EXCAVATING WITHIN 15 FEET (BUT NOT CLOSER THAN 5 FEET) OF THE CABLE, THE CABLE ROUTE WILL BE MARKED CONTINUALLY WITH ORANGE PAINT AND SUPPLEMENTED BY MARKER FLAGS PLACED EVERY 10 FT. THE EXCAVATION CONTRACTOR MUST POTHOLE THE CABLE A MINIMUM OF EVERY 30 FT.

• THE CABLE WILL ALSO BE POTHOLED AT ANY CHANGE IN THE RUNNING LINE OF MORE THAN 1 FT. IN ANY DIRECTION, ANYTIME THE ACCURACY OF THE ELECTRONIC LOCATE IS QUESTIONED, OR THE MARKED RUNNING LINE DOES NOT MATCH THE AS-BUILTS.

MCI OUTSIDE PLANT CONSTRUCTION GENERAL REQUIREMENTS

6. EXPOSING REQUIREMENTS:

• NO MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES WILL BE ALLOWED UNLESS THE FACILITIES HAVE FIRST BEEN PROPERLY LOCATED, POTHOLED, POSITIVELY IDENTIFIED, CONTINUOUSLY EXPOSED BY HAND DIGGING OR VACUUM EXCAVATION, AND THE FACILITIES ARE CLEARLY VISIBLE.

• IN ADDITION, MECHANICAL EXCAVATION WITHIN 3 FT. OF OSP FACILITIES REQUIRES ON-SITE PRIOR APPROVAL FROM MCI'S EMPLOYEE OR CONTRACT REPRESENTATIVE.
7. PLEASE REFER TO THE LATEST EDITION OF THE MCI OSP HANDBOOK FOR ADDITIONAL DETAILS. KNOW IT AND FOLLOW IT.

• ALL FEDERAL, STATE AND LOCAL SAFETY REGULATIONS MUST BE FOLLOWED WITHOUT EXCEPTION.

• PERSONAL PROTECTIVE EQUIPMENT APPROPRIATE FOR THE SPECIFIC WORK SITE SHALL BE USED AT ALL TIMES. AT A MINIMUM, HARD HAT, SAFETY SHOES/STEEL-TOED BOOTS, AND FLORESCENT ORANGE OR GREEN WORK VEST ARE REQUIRED UPON ENTERING ANY MCI WORK SITE.

• USE OF INTOXICANTS, DRUGS, INHALANTS OR ANY OTHER SUBSTANCES THAT MAY IMPAIR ALERTNESS ARE STRICTLY PROHIBITED.


• CONTRACTORS ARE NOT ALLOWED TO CUT ANY CABLE. CABLES SCHEDULED FOR REMOVAL WILL BE CUT BY MCI OPERATIONS PERSONNEL, AND ONLY AFTER VERIFICATION THAT ALL TRAFFIC HAS BEEN OFF-LOADED.

• EXTREME CAUTION MUST BE USED AT ALL TIMES WHEN WORKING ON OR NEAR ACTIVE CABLES. AN MCI EMPLOYEE OR CONTRACT REPRESENTATIVE MUST APPROVE AND BE PRESENT PRIOR TO AND DURING ALL CABLE HANDLING ACTIVITIES.

• TOOLS AND EQUIPMENT SPECIFICALLY DESIGNED FOR THE JOB AT HAND ARE REQUIRED. USE THE PROPER TOOL FOR THE JOB.


• CONDUIT WORK INVOLVING ACTIVE CABLES REQUIRES SPECIALIZED TOOLS SPECIFICALLY DESIGNED TO ACCESS DUCTS WITH ACTIVE CABLES.

• PROTECTING MCI FACILITIES IS EXTREMELY IMPORTANT; HOWEVER, SAFETY REGARDING YOURSELF AND OTHERS IS THE MOST IMPORTANT PART OF ANY PROJECT.
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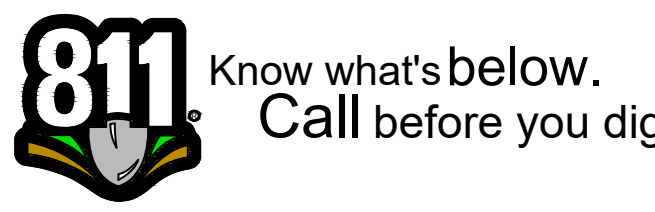


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AT ALL TIMES

APPROVED SUBJECT TO FIELD
INSPECTION

0	06/11/2021	INITIAL RELEASE	JET
REV	DATE	DESCRIPTION	BY

PROJECT LOCATION:

SOD HOUSE - C
SECTION 1

PROJECT MGR: ---

TELEPHONE: ---

ENGINEER: ---

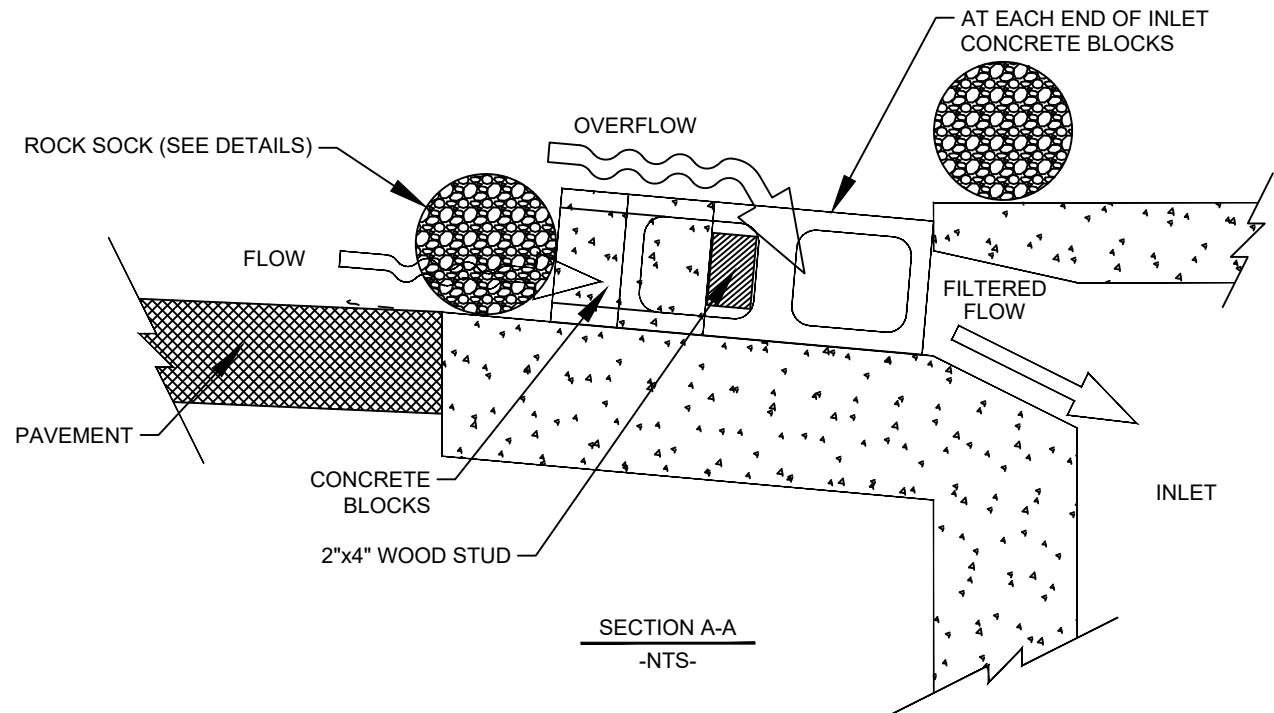
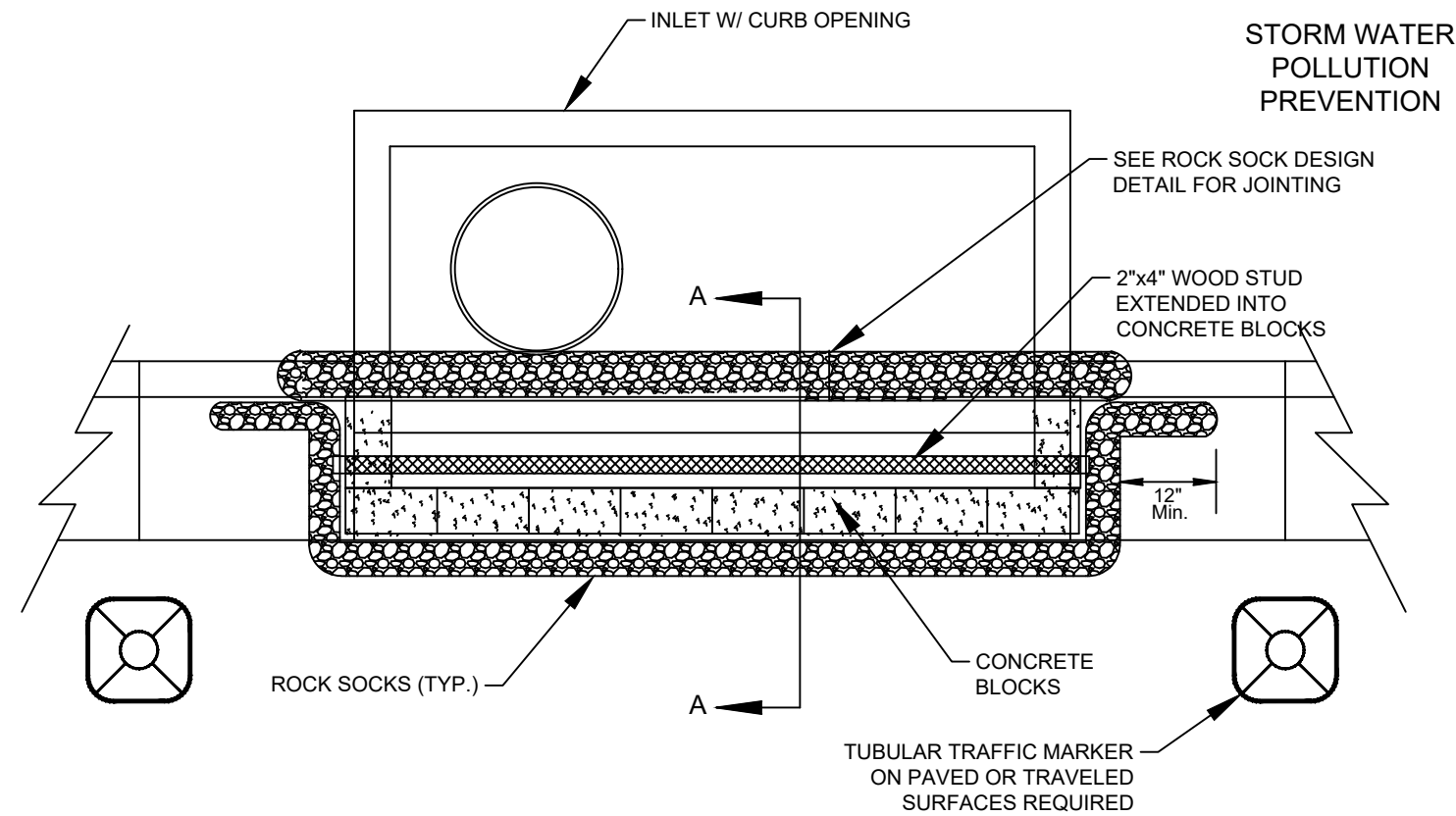
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SHEET TITLE:

GENERAL
NOTES 3

SHEET NUMBER:

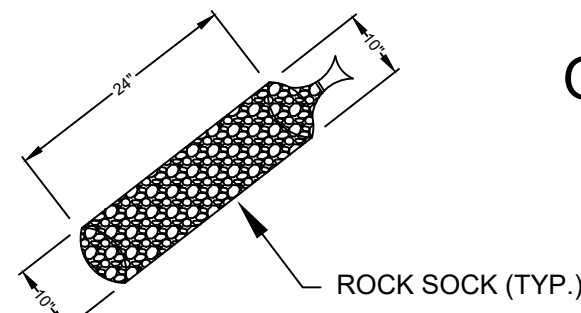
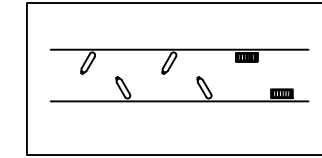
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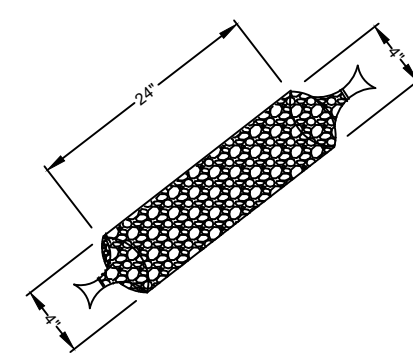
- INLET PROTECTION INSTALLATION NOTES:**
1. INLET PROTECTION SHALL BE INSTALLED WITHIN 48 HOURS OF CONSTRUCTING THE INLET.
 2. SEE ROCK SOCK DESIGN DETAIL FOR INSTALLATION REQUIREMENTS.
 3. CONCRETE "CINDER" BLOCKS SHALL BE LAID ON THEIR SIDES AROUND THE INLET IN A SINGLE ROW ABUTTING ONE ANOTHER WITH THE OPEN END FACING AWAY FROM THE CURB.
 4. GRAVEL SOCKS SHALL BE PLACED AROUND THE CONCRETE BLOCKS, CLOSELY ABUTTING ONE ANOTHER AND JOINTED IN ACCORDANCE WITH THE ROCK SOCK DESIGN DETAIL.

BEST MANAGEMENT PRACTICES TYPICAL

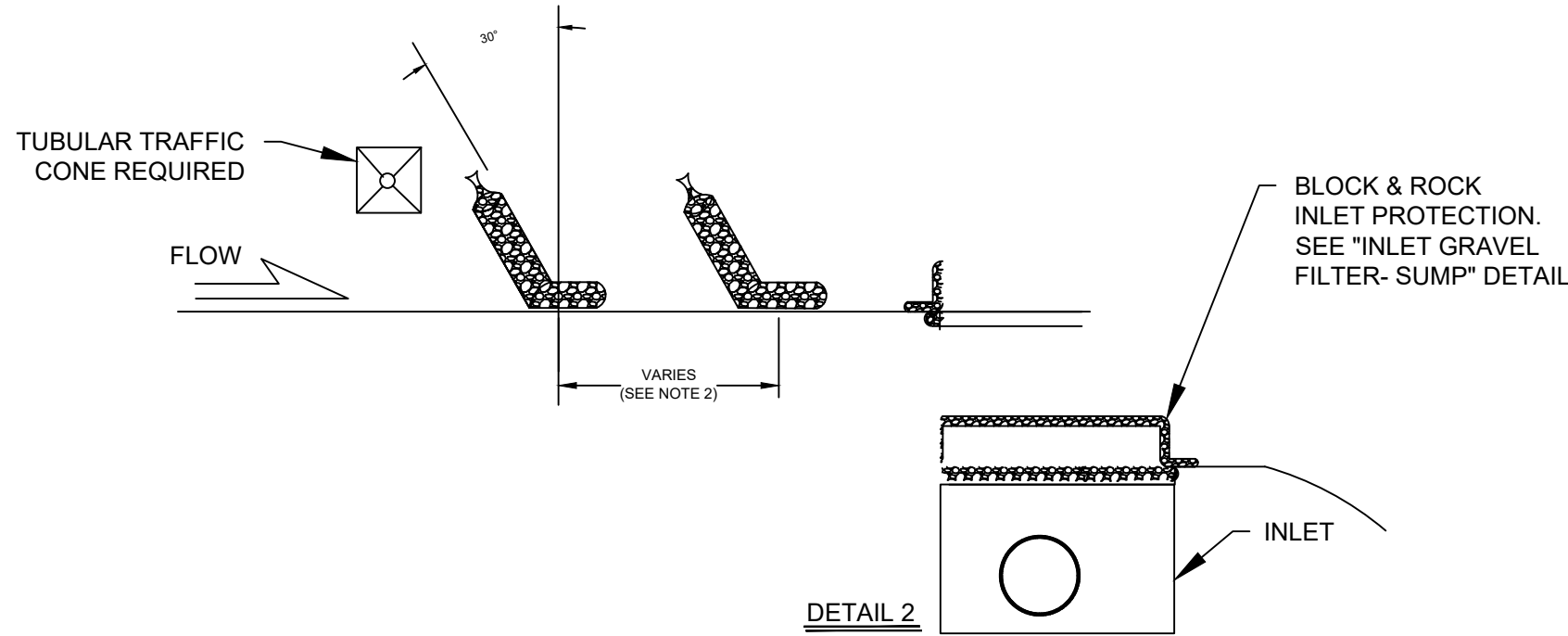
CONTRACTOR NOTE:
THESE ARE EXAMPLES OF METHODS THAT MAY BE USED TO PREVENT STORM WATER CONTAMINATION. SPECIFIC MEASURES TO BE TAKEN AND THEIR LOCATIONS ARE TO BE DETERMINED BY THE CONTRACTOR AND APPROVED BY JURISDICTION



OR

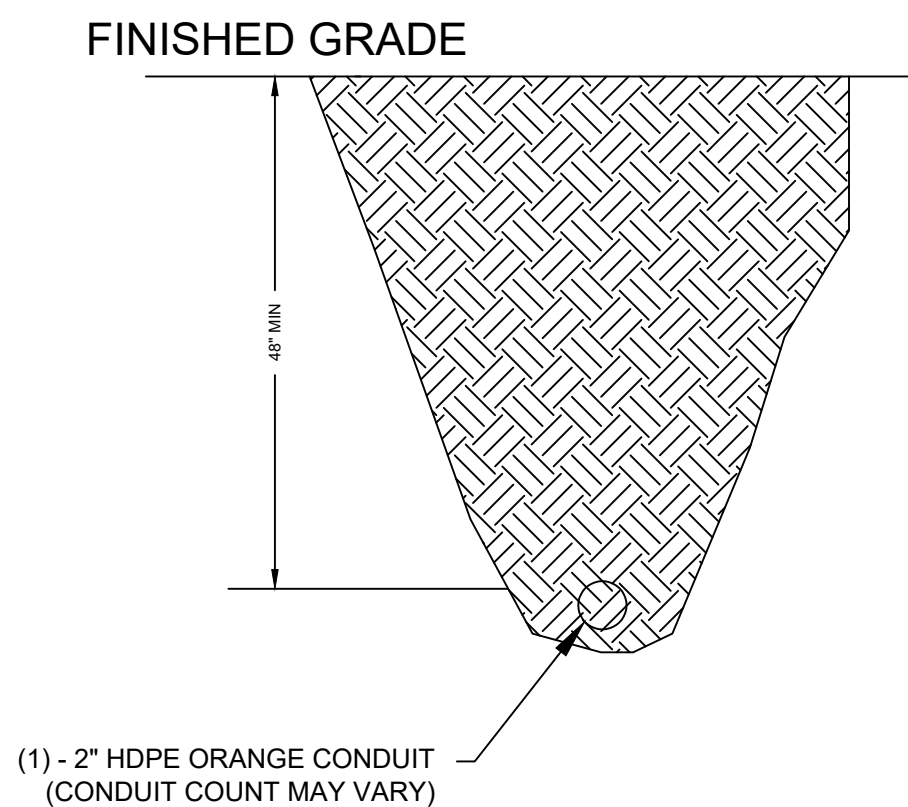


DETAIL 1

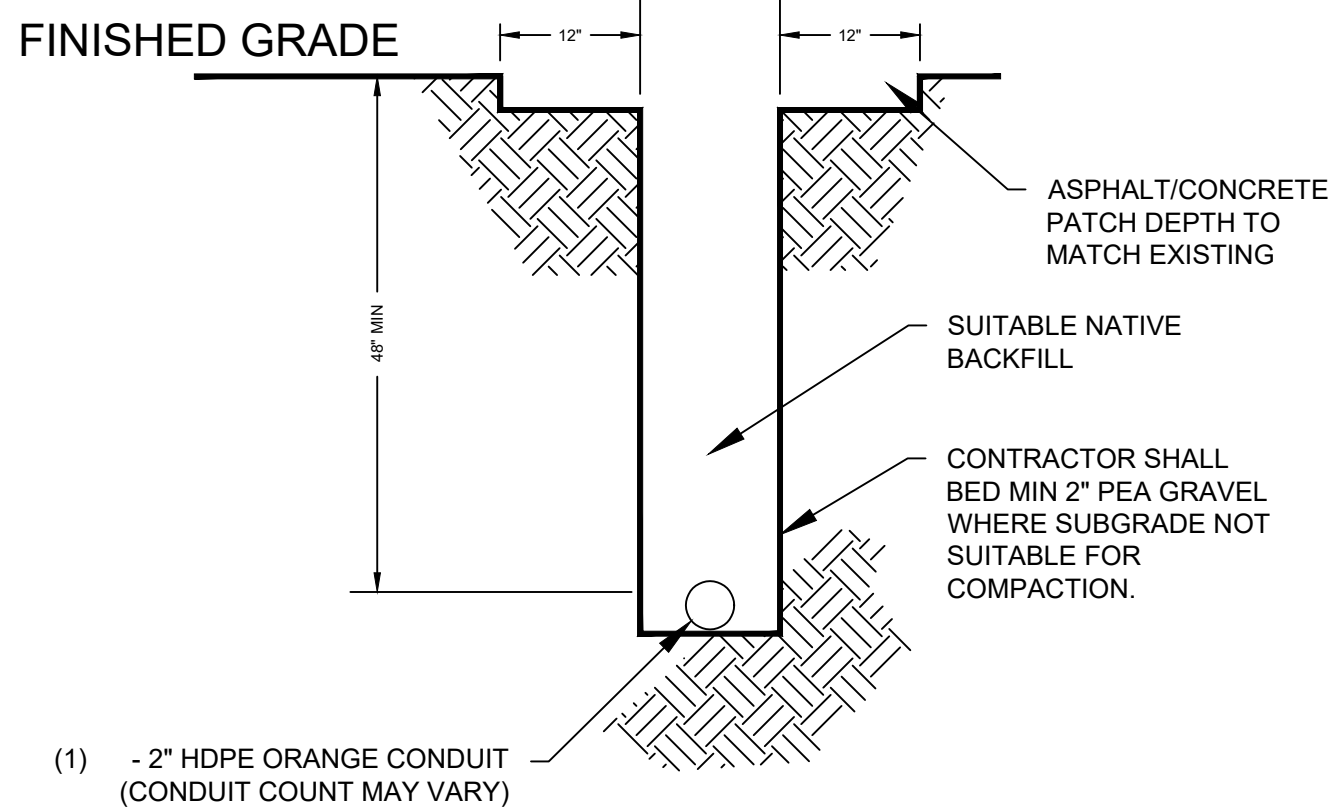


- NOTES:
- 1) SOCKS WILL BE USED UPGRADIENT OF THE INLET AND FLUSH WITH THE CURB.
 - 2) NO LESS THAN TWO 10 INCH DIAMETER SOCKS MUST BE USED IN SEQUENCE, SPACED NO MORE THAN FIVE FEET APART. NO LESS THAN SIX SOCKS SHALL BE USED IF THE 4 INCH SOCK IS USED, ALSO SPACED AT NO MORE THAN 5 FEET APART.
 - 3) ALIGN AT 30 DEGREES FROM PERPENDICULAR, OPPOSITE THE DIRECTION OF FLOW (SEE DETAIL 2).
 - 4) EROSION CONTROL MEASURES SHALL BE MAINTAINED AT ALL TIMES AS DIRECTED BY THE CITY.

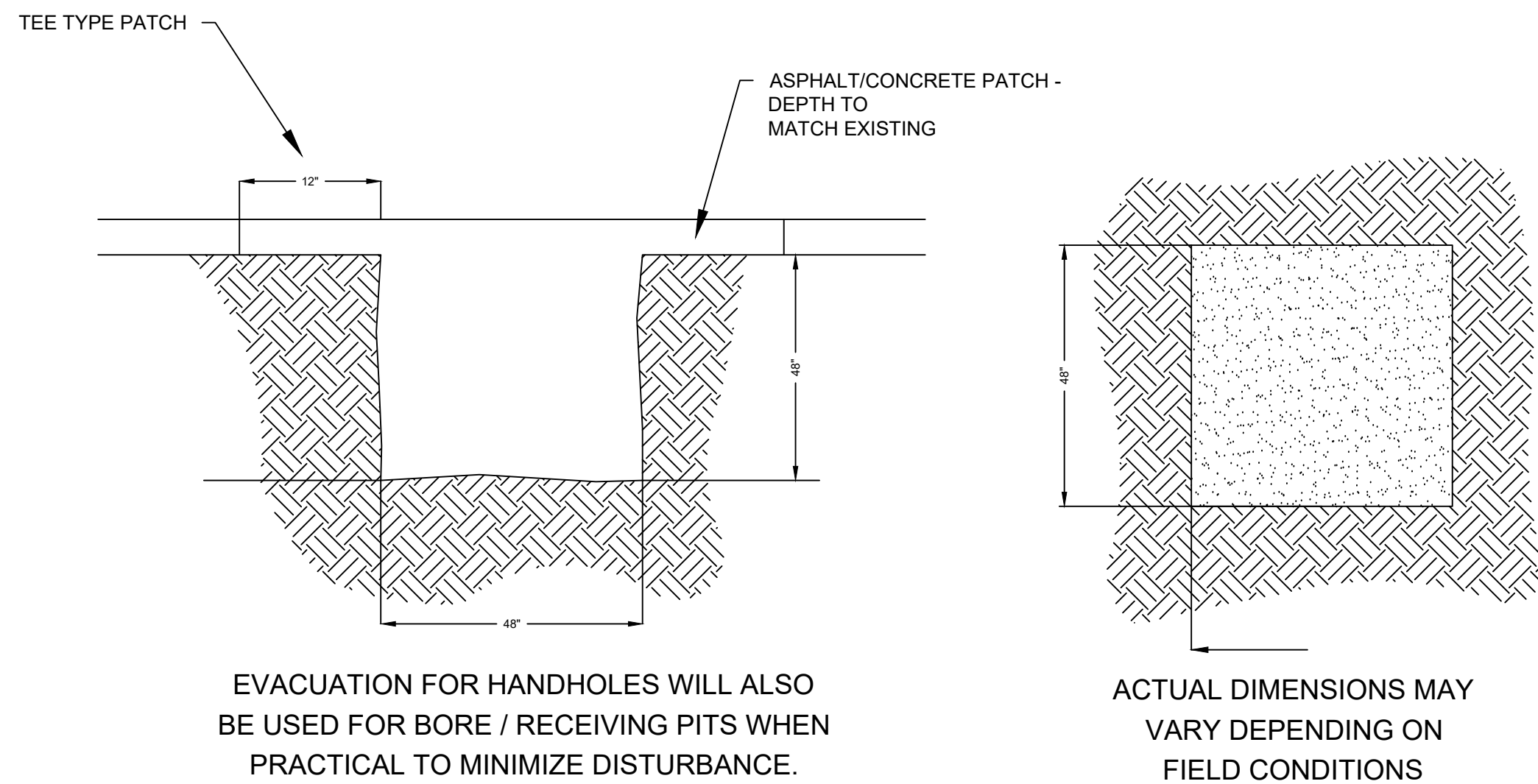
① TYPICAL BORE DETAIL



② TRENCH DETAIL



BORE AND TRENCH DETAILS



EVACUATION FOR HANDHOLES WILL ALSO BE USED FOR BORE / RECEIVING PITS WHEN PRACTICAL TO MINIMIZE DISTURBANCE.

PROTECT NEARBY DOWNSTREAM STORM DRAIN INLETS FROM POTENTIAL CONTAMINATION DUE TO CONSTRUCTION.

ACTUAL DIMENSIONS MAY VARY DEPENDING ON FIELD CONDITIONS

VACUUM SLURRY FROM BORING OPERATIONS AS NEEDED TO ELIMINATE SEEPAGE INTO STREETS AND DRAINS.

TYPICAL BORE PIT

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0	06/11/2021	INITIAL RELEASE	JET
REV	DATE	DESCRIPTION	BY

PROJECT LOCATION:

SOD HOUSE - C
SECTION 1

PROJECT MGR:	---
TELEPHONE:	---
ENGINEER:	---
TELEPHONE:	---

SHEET TITLE:

DETAILS

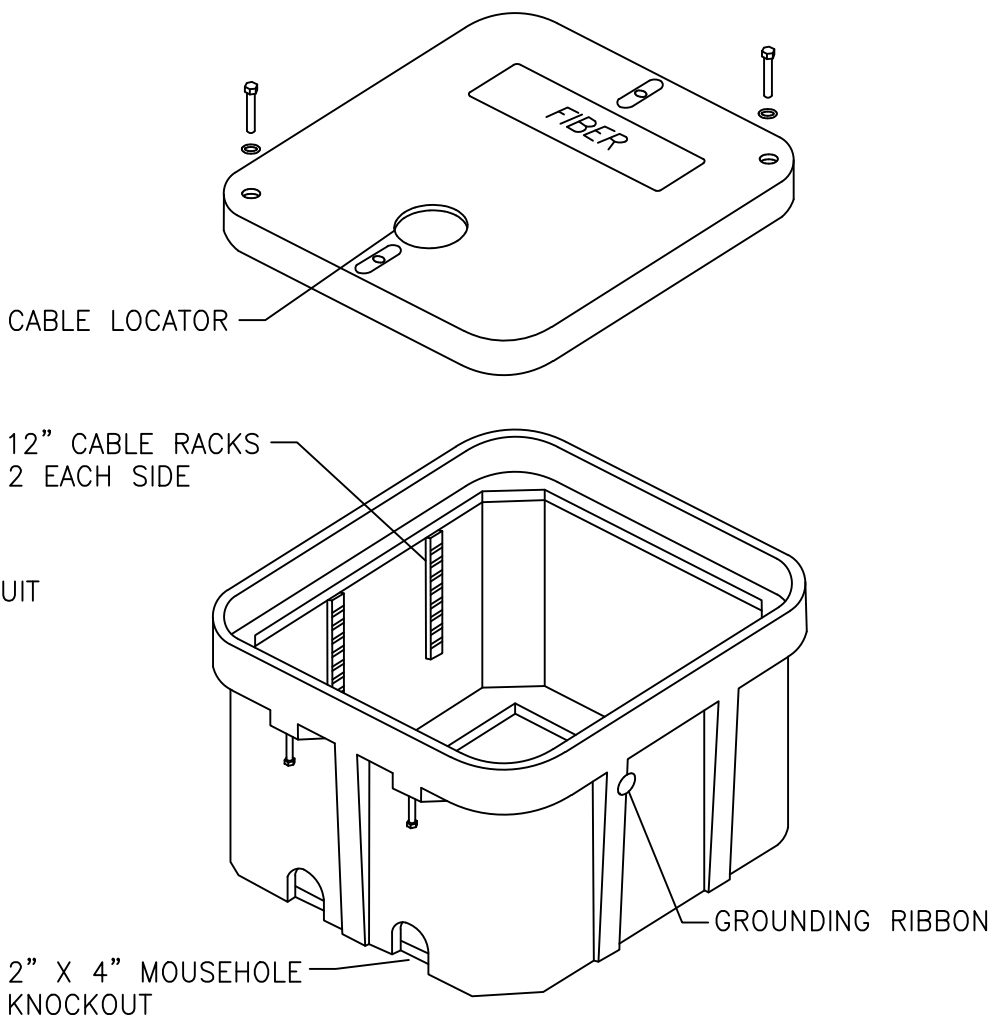
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D1 OF 19

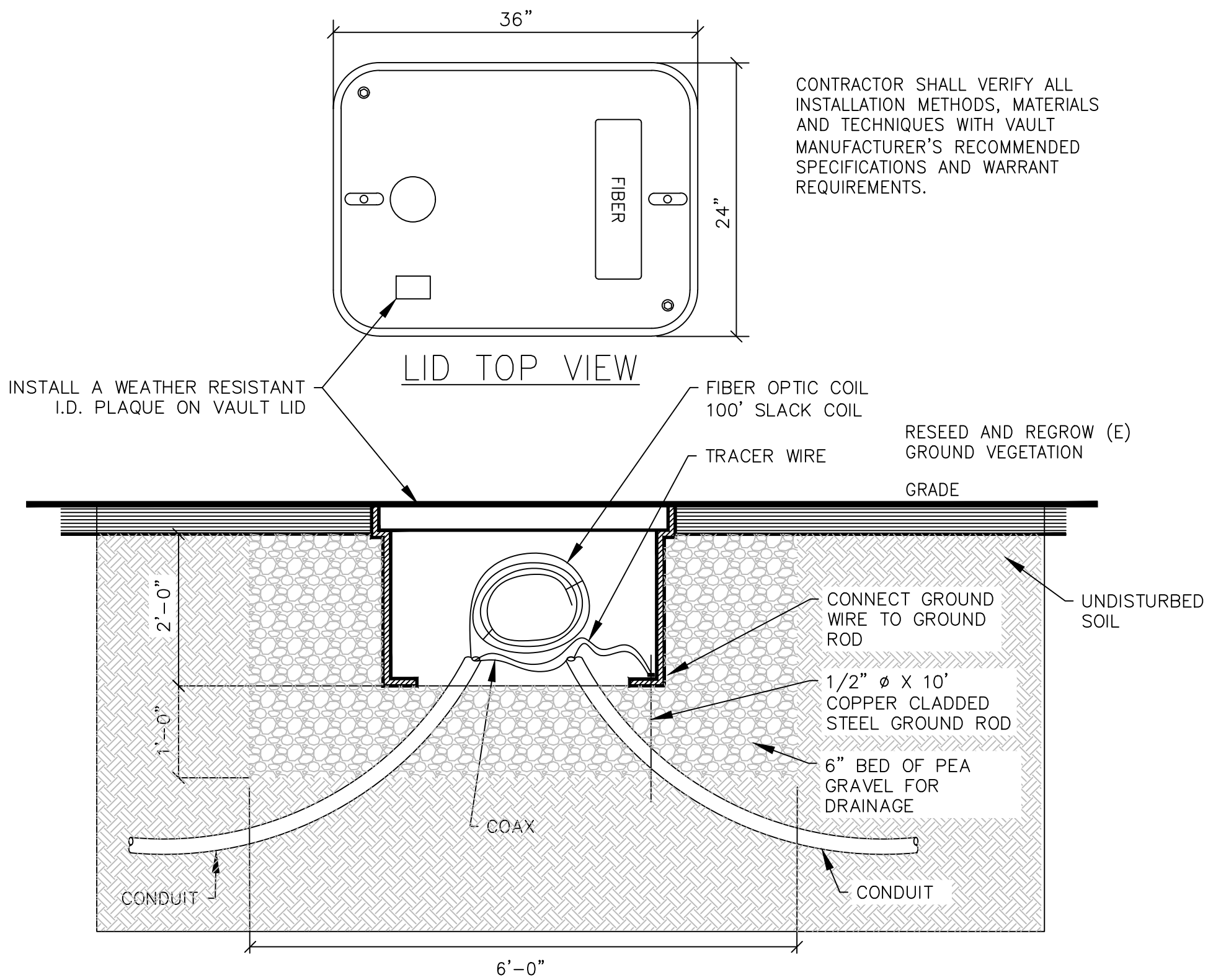
24" X 36" X 24"
HANDHOLE DETAIL

PULL BOX NOTES:

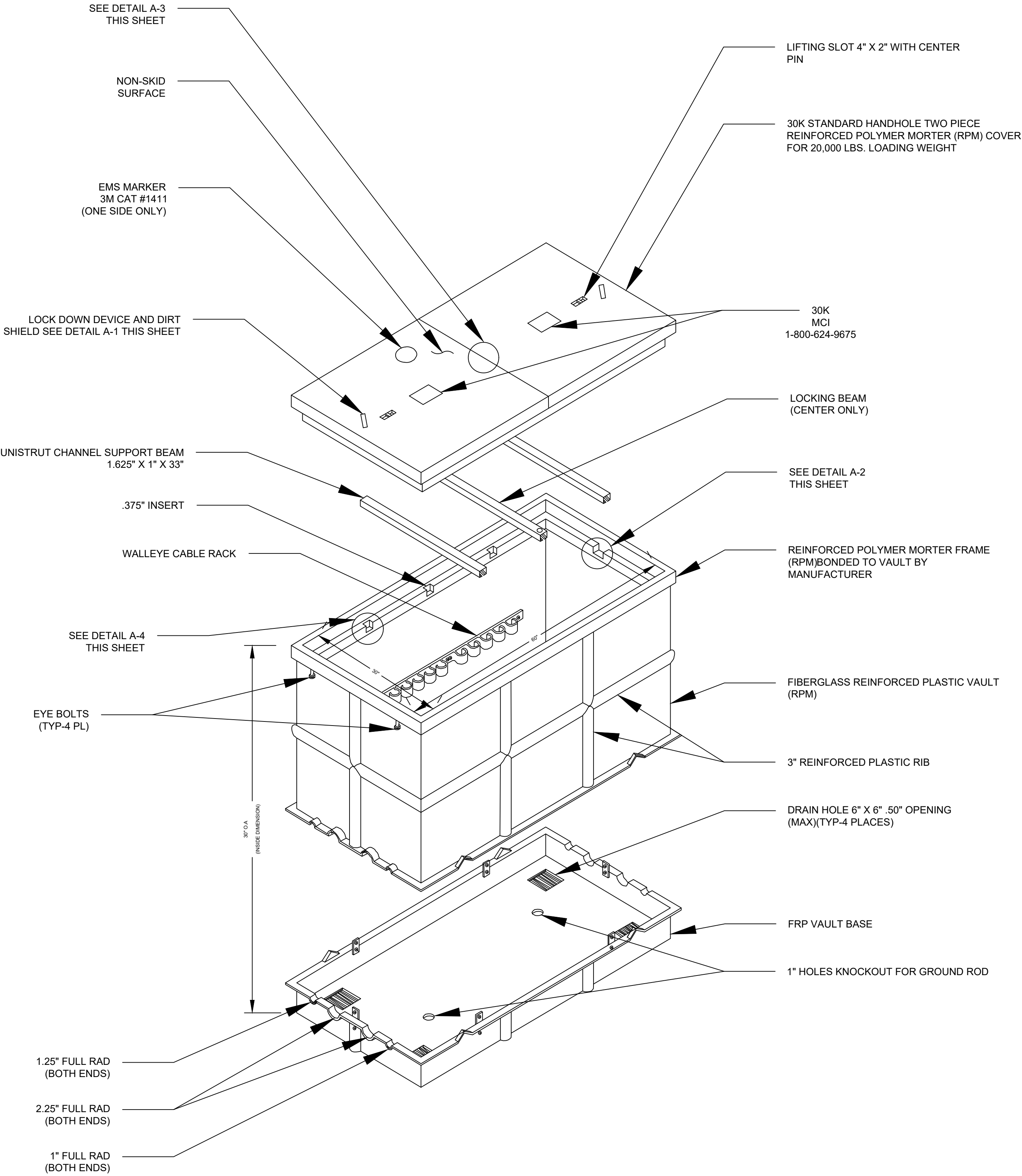
- 1. CONDUIT CENTERLINE SHALL BE ALIGNED WITHIN THE PULL BOX TO FACILITATE FIBER OPTIC CABLE PULLING.
- 2. CONDUIT PLUGS SHALL BE INSTALLED IN ALL CONDUITS, BOTH WITH AND WITHOUT WIRE OR CABLE AND SHALL BE INCLUDED IN THE COST OF CONDUIT ITEM.
- 3. WEATHERPROOF TAGS SHALL BE INSTALLED ON ALL FIBER CABLES.
- 4. TRACER WIRE SHALL BE INCLUDED IN THE CONDUIT
 - TRACER WIRE SHALL BE INSTALLED IN SAME CONDUIT AS FIBER CABLE
- 5. FIBER OPTIC CABLE COILS WITHIN PULL BOXES SHALL BE TIED TO EACH CABLE RACK. PLASTIC WIRE TIES SHALL NOT BE ALLOWED. CAUTION SHALL BE TAKEN TO COIL THE FIBER CABLE PER MANUFACTURER'S RECOMMENDATIONS.



TYPICAL FIBER PULLBOX DETAIL



30" X 60" X 30"
HANDHOLE DETAIL



HANDHOLE DETAILS

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REV	DATE	DESCRIPTION	BY

PROJECT LOCATION:
**SOD HOUSE - C
SECTION 1**

PROJECT MGR: ---
TELEPHONE: ---
ENGINEER: ---
TELEPHONE: ---

SHEET TITLE:
DETAILS

SHEET NUMBER:
D2 OF 19

ABAN	Abandon(ed)
ABW	Asphalt Bike Way
ACV	Automatic Control Valve
ACP	Asphalt Concrete Pavement
ADA	Americans with Disabilities Act
ADJ	Adjust
AHD	Ahead
AIC	Aerial Interconnect Cable
AL	Aluminum
AP	Angle Point
APP	Approved
APPROX	Approximate
APWA	American Public Works Association
ASPH	Asphalt
ATB	Asphalt Treated Base
AV	Air Valve
AVB	Automatic Vacuum Breaker
AVE	Avenue
AVG	Average
AW	Asphalt Walk
AWG	American Wire Gage
AWWA	American Water Works Assoc.
BAT	Backflow Assembly Tester
B&B	Ball & Burlap
BC	Brass Cap
BF	Bottom Face
BFV	Butterfly Valve
BK	Back
BLDG	Building
BLK	Block
BLKG	Blocking
BLKHD	Bulkhead
BLRD	Bollard
BLVD	Boulevard
BM	Bench Mark
BO	Blow Off
BOC	Back of Curb
BPD	Backflow Prevention Device
BR	Bare Root, Brick
BRG	Bearing
BRKN	Broken
BSMT	Basement
BTW	Between
BV	Ball valve
BVC	Beginning of Vertical Curve
C&G	Curb & Gutter
CAL	Caliper
CALC	Calculation
CB	Cable, Catch Basin
CBW	Concrete Bike Way
C-C	Center to Center
CC	Concrete Culvert
CD	Conduit
CDF	Controlled Density Fill
CEM	Cement
CF	Cubic Feet
CH	Chamber
CIP	Cast Iron Pipe
CL	Center Line or Class
¢	Center Line
CLF	Chain Link Fence
CLR	Clearance
CMP	Corrugated Metal Pipe
CO	Clean Out
COMP	Compression
CONC	Concrete

COND	Condition
CONN	Connect/Connection
CONSTR	Construction
CONT	Continuous
CORP	Corporation
CPEP	Corrugated Polyethylene Pipe
CR	Cross, Curb Radius
CULV	Culvert
CW	Concrete Walk
CY	Cubic Yard
DB	Direct Burial Cable
DC	Direct Current
DCVA	Double Check Valve Assembly
DEPT	Department
DGV	District Gate Valve
DIA 0	Diameter
DIP or DI	Ductile Iron Pipe
DIPRA	Ductile Iron Pipe Research Assoc.
DR	Drive
DS	Downspout
DWG	Drawing
DWY	Driveway
E	East
EA	Each
ECB	Electrical Cable
ECC	Eccentric
ECD	Electrical Conduit
ED	Electrical Duct
EL/ELEV	Elevation
ELEC	Electric/Electrical
EMH	Electrical Maintenance Hole
ENCL	Enclosure
ENGR	Engineer
EOP	Edge of Pavement
EQ	Equal
ESAL	Equivalent Single Axle Loads
ESMT	Easement
EV	Electrical Vault
EVC	End of Vertical Curb
E/W	Equipped With
EX	Existing
EXP	Expansion
FACB	Fire Alarm Cable
FAHH	Fire Alarm Handhole
FC	Face of Curb
FCS	Flow Control Structure
FDN	Foundation
FF	Far Face, Finished Floor
FG	Finished Grade
FIG	Figure
FIPT	Female Iron Pipe Thread
FLG	Flange
FLR	Floor
FLT	Flat Bar
FM	Force Main
FO or FOC	Fiber Optics
FS	Far Side
FT	Feet
FTB	Fluidized Thermal Backfill
FTG	Footage
G	Gas
G REG	Gas Regulator
GA	Gauge
GAL	Gallon
GALV	Galvanize/Galvanized
GAS V	Gas Valve

GFCI	Ground Fault Circuit Interrupter
GIP	Galvanized Iron Pipe
GM	Gas Meter
GND	Ground
GP	Guy Pole
GPM	Gallons Per Minute
GR	Grade
GRHH	Ground Rod Handhole
GS	Gas Service
GSI	Green Stormwater Infrastructure
GSP	Galvanized Steel Pipe
GV	Gate Valve
GVC	Gate Valve Chamber
GVL	Gravel
HB	Horizontal Bend
HBR	Hose Bib Riser
HDPE	High Density Polyethylene
HEX	Hexagon/Hexagonal
HGL	Hydraulic Grade Line
HH	Handhole
HI	High
HMA	Hot Mix Asphalt
HORIZ	Horizontal
HPG	High Pressure Gas
HPS	High Pressure Sodium
HR	Hour
HSE	House
HT	Height
HYD	Hydrant
ID	Inside Diameter/Dimension
I/D	Incentive/Disincentive
IE	Invert Elevation
IF	Inside Face
IN	Inch(es)
INL	Inlet
INT	Intersection
INV	Invert (Line)
IP(S)	Iron Pipe (Size)
IRC	Irrigation Controller
IRRG	Irrigation
IRRGV	Irrigation Valve
ISO	Isolation Coupling
JB	Junction Box
JT	Joint
K	Kips (1000 lbs)
KSI	Kips Per Square Inch
KV	Kilovolt
LAL	Limited Access Line
LB, LBS	Pound, Pounds
LF	Linear/Lineal Feet
LID	Local Improvement District
LIT	Large Inlet Top (Catch Basin)
LOC	Locate/Location
LONGIT	Longitudinal
LP	Light Pole
LS	Lump Sum
LSCAPE	Landscape, Landscaping
LT	Left
LTG	Lighting
LUM	Luminaire
MA	Mast Arm
MATL	Material
MAX	Maximum
MB	Mailbox
MCV	Manual Control Valve
MDV	Manual Drain Valve

MH	Manhole
MIC	Monument in Case
MIN	Minimum
MIPT	Male Iron Pipe Thread
MISC	Miscellaneous
MJ	Mechanical Joint
ML \overline{M}	Monument Line
MNRL AGG	Mineral Aggregate
MOD	Modify/Modified
MON	Monument
MW	Monitor Well
N	North
NAD	North American Datum
NAVD	North American Vertical Datum
NF	Near Face
NGVD	National Geodetic Vertical Datum
NIC	Not in Contract
NO	Number
NOM	Nominal
NS	Near Side
NTS	Not To Scale
OC	On Center
OD	Outside Diameter/Dimension
OF	Outside Face
OH	Overhead
PAV	Pavement
PC	Point of Curvature
PCC	Point of Compound Curve
PDP	Perforated Drain Pipe
PE	Plain End
PED	Pedestrian
PG	Performance Grade
PH	Phase
PI	Point of Intersection
PL	Plate, Place, Polyethylene
\overline{r}	Property Line
POC	Point on Curve
PP	Power Pole
PPB	Pedestrian Push Button
PR	Pair
PRC	Point of Reverse Curve
PROP	Proposed
PRKG	Parking
PRV	Pressure Reducing Valve
PS	Pipe Sewer Combined
PSD	Pipe Storm Drain
PSDD	Pipe Storm Drain Detention
PSI	Pounds per Square Inch
PSIA	Pounds per Square Inch Absolute
PSIG	Pounds per Square Inch Gauge
PSS	Pipe Sewer Sanitary
PT	Point of Tangency
PVB	Pressure Vacuum Breaker
PVC	Polyvinyl Chloride
PVT	Private
QTY	Quantity
R	Radius
R&R	Remove & Replace
R/W	Right of Way
RCP	Reinforced Concrete Pipe
RD	Roof Drain
RDWY	Roadway
RECONN	Reconnect
RED	Reducer
REF	Refer/Reference
REINF	Reinforce/Reinforcement

RELOC	Relocate
REM	Remove
REPL	Replace
REQD	Required
RET	Retire/Retired
RET WALL	Retaining Wall
RF	Rock Facing
RGS	Rigid Galvanized Steel
RIT	Round Inlet Top
RLWY	Railway
RP	Rock Pocket
RPBA	Reduced Pressure Backflow Assembly
RR	Railroad
RS	Rigid Steel
RT	Right
S	South
SB	Sandbox
SCH	Schedule
SDS	Street Designation Sign
SD	Service Drain
SEC	Section
SHLD	Shield
SHT	Sheet
SL	Sleeve, Street Light
\overline{S}	Survey Line
SLHH	Street Light Handhole
SNS	Street Name Sign
SP	Strain Pole
SPCS	Spaces
SPEC	Specifications
SQ	Square
SS	Stainless Steel, Side Sewer-Combined
SSD	Sub-Surface Drain
SSS	Side Sewer-Sanitary
SSTONE	Sandstone
ST	Street
STA	Station
STD	Standard
STL	Steel
STL P	Steel Pipe
STM LOG	Steam Log
STRUCT	Structure/Structural
SW	Sidewalk
SY	Square Yard
SYS	System
T	Tee
TB	Test Boring
TC	Traffic Control
TCB	Telephone Cable
TCD	Telephone Conduit
TCHH	Traffic Control Handhole
TD	Telephone Duct
TEB	Telephone Enclosure Box
TEL	Telephone
TEMP	Temporary
TF	Top Face
TH	Test Hole
THH	Telephone Handhole
TJO	Transfer of Jurisdiction Ordinance
TMH	Telephone Manhole
TMT	Treatment
TN	Ton
TR	Traffic
TRCB	Traffic Signal Cable
TRCD	Traffic Signal Conduit
TRSCC	Traffic Signal Controller Cabinet

TVCB	Television Cable
TVHH	Television Handhole
TYP	Typical
UG	Underground
UIC	Underground Interconnect
UNC	Unified National Course
UP	Utility Pole
V	Valve, Variable
V/C	Vertical Curve
VAR	Variable/Varies
VB	Vertical Bend
VBOX	Valve Box
VCH or VC	Valve Chamber
VCP	Vitrified Clay Pipe
VEH	Vehicle
VERT	Vertical
VMS	Variable Message Sign
VO	Vacation Ordinance
VP	Vacuum Pothole
W	Water, West
W/	With
WCR	Walkway Curb Ramp
WD	Wood/Wooden
WF	Wood Fence
WIF	Wrought Iron Fence
WM	Water Meter, Water Main
WMA	Warm Mix Asphalt
WMR	Water Main Radius
WP	Wood Pole
WS	Water Service
WSP	Wood Stave Pipe
WU	Western Union
WV	Water Valve
WWF	Welded Wire Fabric
XP	Transmission Pole

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TELEPHONE: ---

ENGINEER: ---

TELEPHONE: ---





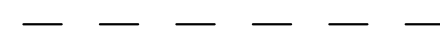































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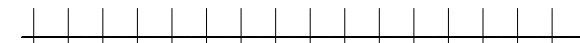
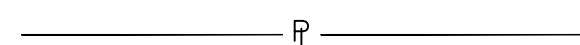







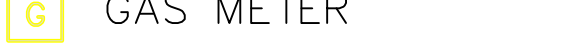



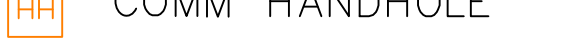




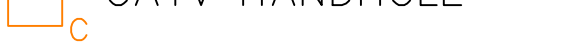


ABBREVIATIONS


SHEET NUMBER:

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LEGEND

	BORE	PROPOSED BORE PATH
	TRENCH	PROPOSED TRENCH
	ROW	R.O.W.
	PL	PROPERTY LINE
		EASEMENT
	G	NATURAL GAS
		NATURAL GAS SERVICE
	P	PETROLEUM PIPELINE
	UE	UNDERGROUND ELECTRIC
		UNDERGROUND ELECTRIC SERVICE
	OE	OVERHEAD ELECTRIC
	SL	STREET LIGHT
	T	TELEPHONE
		TELEPHONE SERVICE
	TF	TELEPHONE FIBER
	TD	TELEPHONE DUCT
	CF	CABLE TV FIBER
	TV	CABLE TV
	FO	FIBER OPTIC
	COMM	CABLE TV/FIBER OPTIC/TELEPHONE DUCT
	TR	TRAFFIC
	W	WATER
		WATER SERVICE
	RW	RECLAIMED WATER
	GT	GREASE TRAP
	SS	SANITARY SEWER
		SANITARY SEWER SERVICE
	SD	STORM SEWER
	IR	IRRIGATION
	MISC	MISCELLANEOUS CONDUIT
	X	FENCE LINE
		CENTERLINE
	R/W	RIGHT-OF-WAY
	EOP	EDGE OF PAVEMENT
	S/W	SIDEWALK
		BACK OF CURB


	GUARD RAIL
	TRACKS
	PROPERTY LINE
	ELECTRIC MANHOLE
	ELECTRIC VAULT
	ELECTRIC PEDESTAL
	ELECTRIC HANDHOLE
	ELECTRIC TRANSFORMER
	ELECTRIC SWITCH CABINET
	GAS VALVE
	GAS METER
	RISER POLE
	STREET LIGHT
	UTILITY POLE
	COMM HANDHOLE
	TELEPHONE MANHOLE
	TELEPHONE HANDHOLE
	TELEPHONE PEDESTAL
	TELEPHONE X-BOX
	CATV HANDHOLE
	CATV PEDESTAL
	CATV MANHOLE

	FIBER OPTIC MANHOLE
	FIBER OPTIC POLE
	FIBER OPTIC HANDHOLE
	TRAFFIC HANDHOLE
	TRAFFIC PEDESTAL
	TRAFFIC LIGHT
	FIRE HYDRANT
	WATER VALVE
	WATER METER
	WATER VENT
	WATER MANHOLE
	SANITARY SEWER MANHOLE
	STORM SEWER MANHOLE
	STORM SEWER INLET
	GREASE TRAP
	BORE PIT
	POTHOLE

ABBREVIATIONS:


EOP	EDGE OF PAVEMENT
F/L	FLOW LINE
BOC	BACK OF CURB
BOW	BACK OF WALK
S/L	STREET LIGHT
F/O	FIBER OPTIC
MW	MILL WRAP
AL	ALUMINUM
CU	COPPER
CLN	CENTURYLINK LOCAL NETWORK
H2O	WATER
MH	MANHOLE
SS	SANITARY SEWER
STM	STORM SEWER
TELE	TELEPHONE
EOM	END OF MAIN
TYP	TYPICAL

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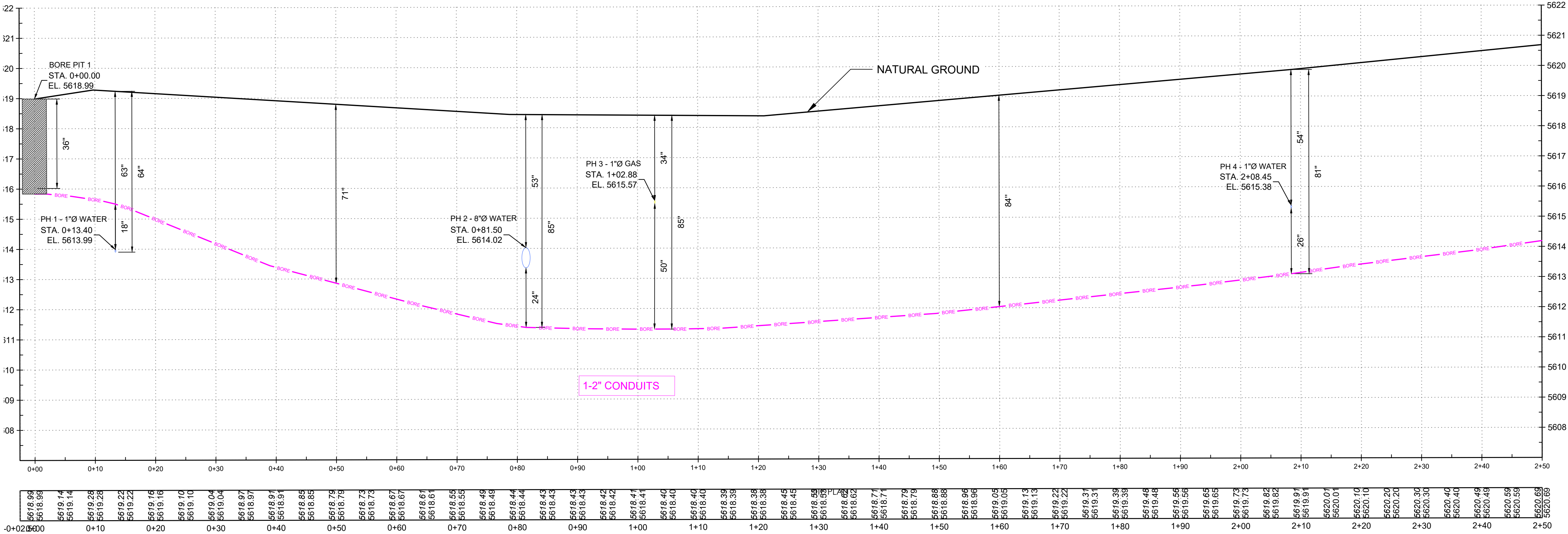
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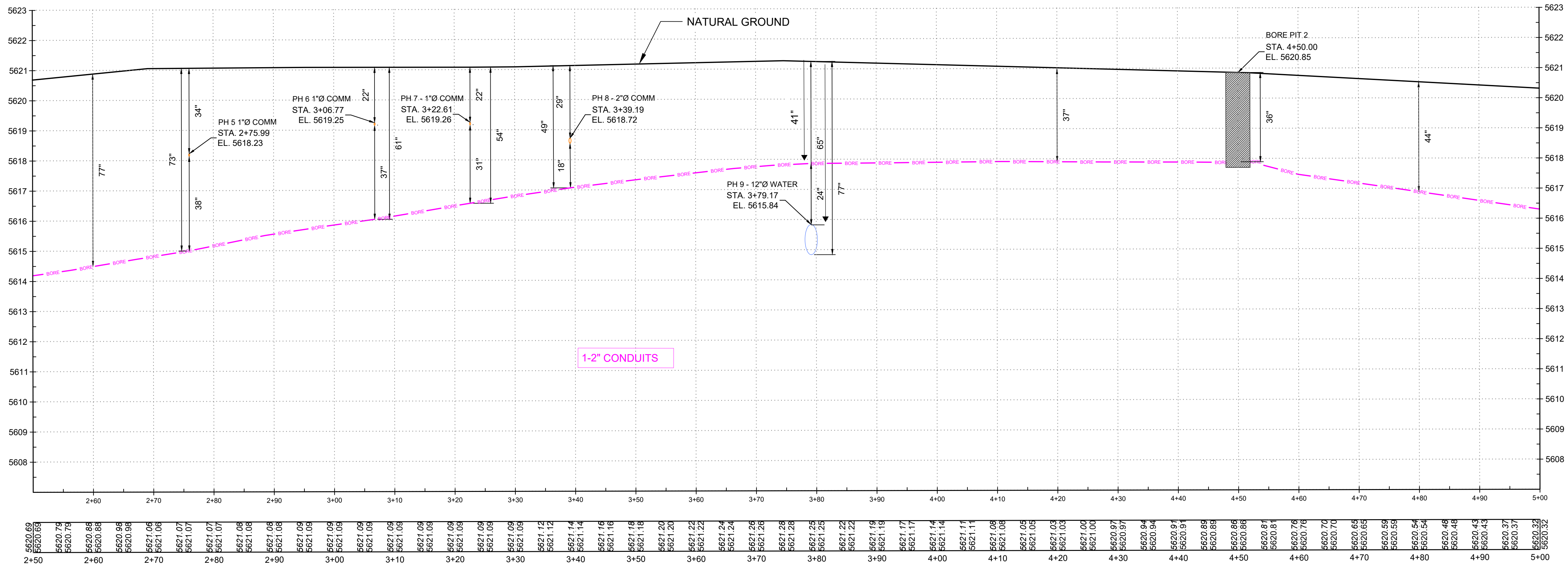
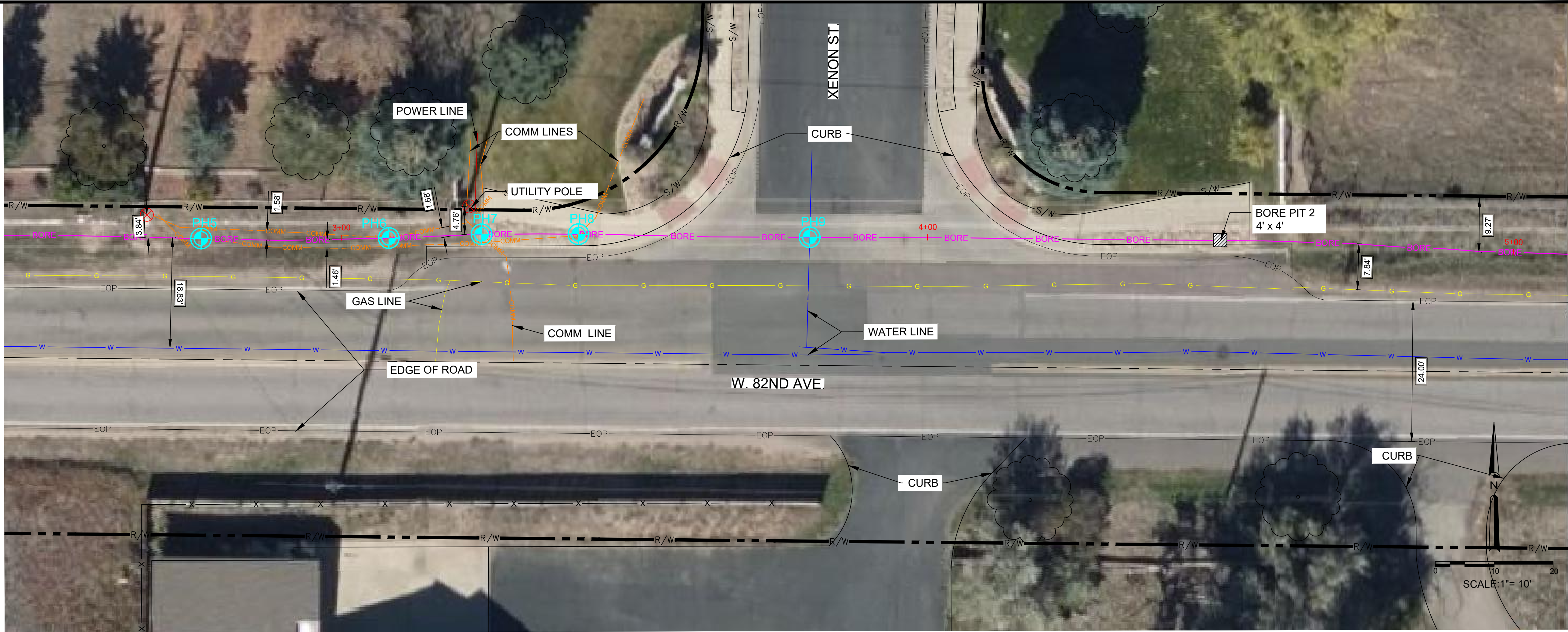
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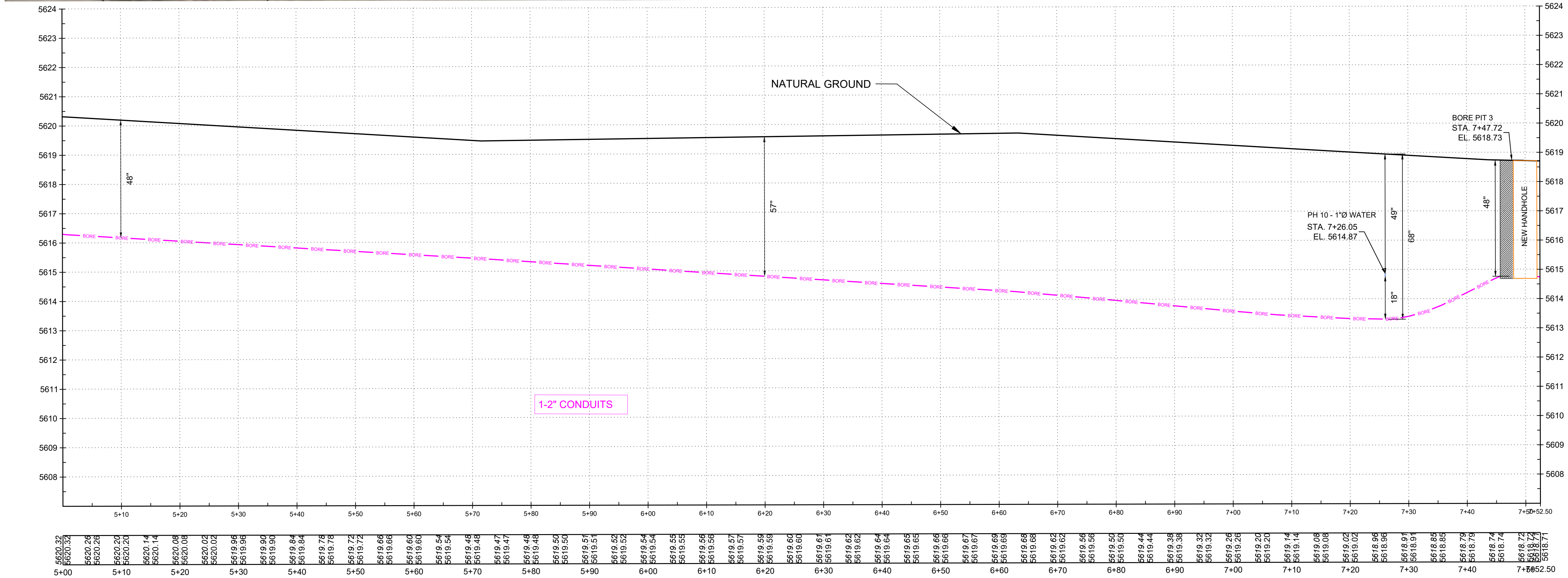
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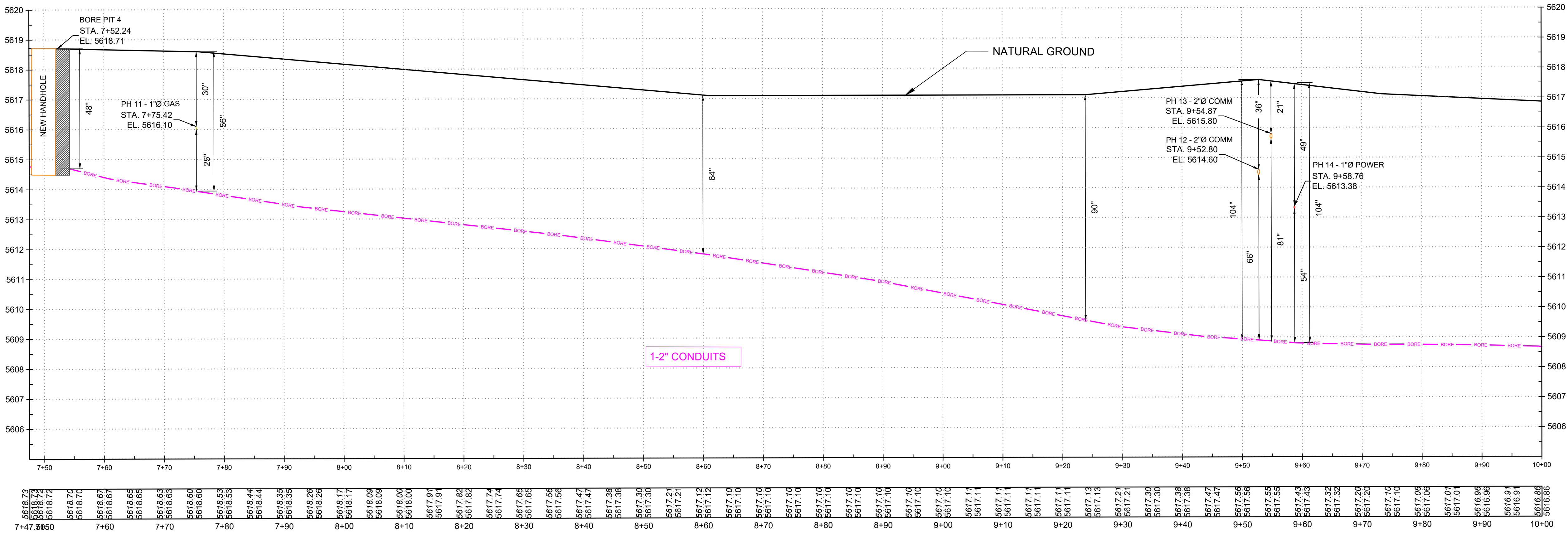
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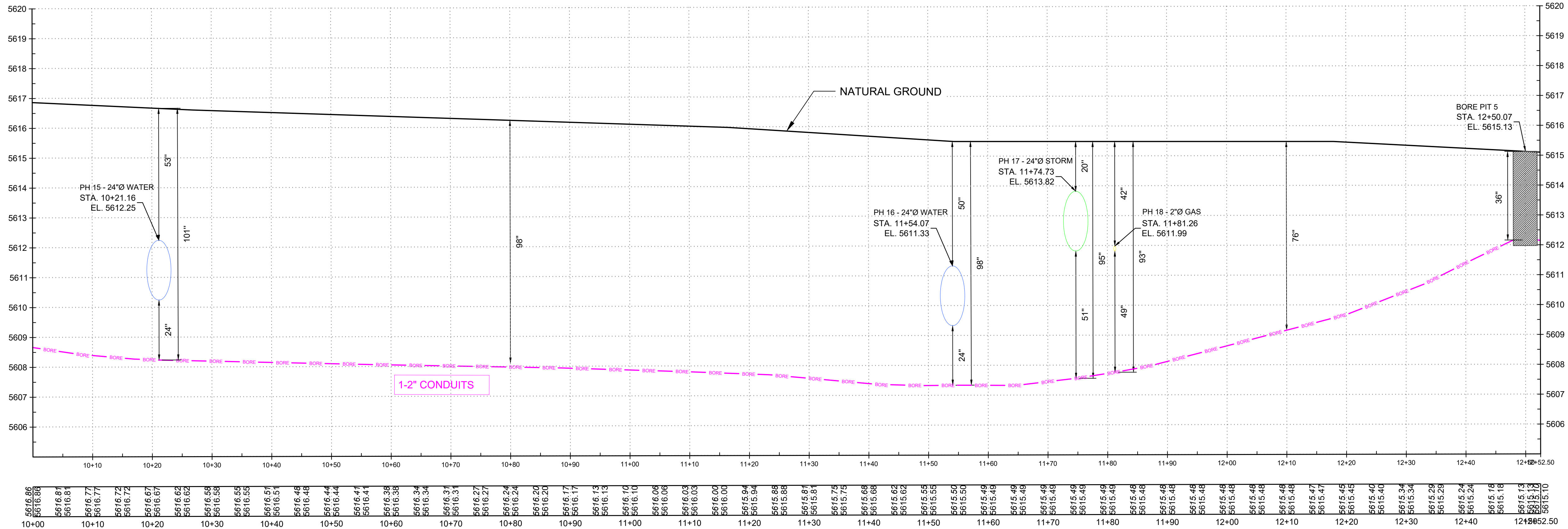
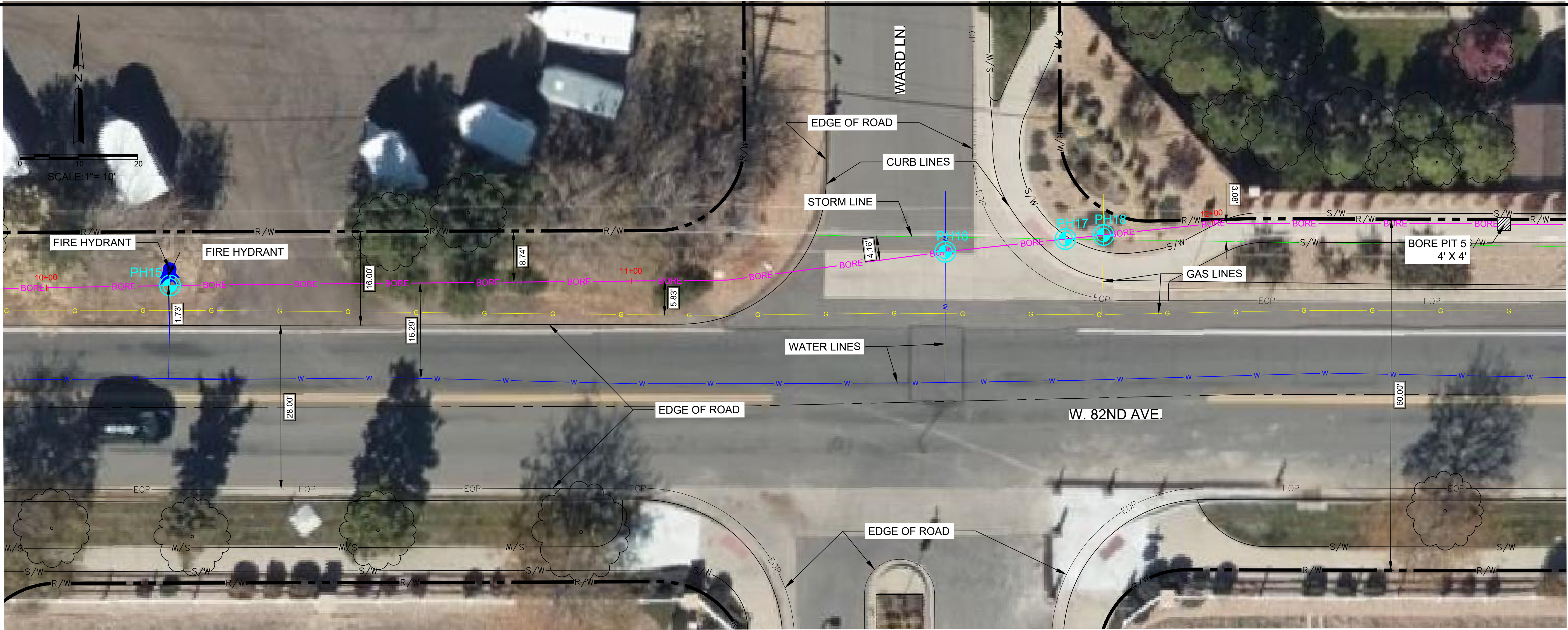
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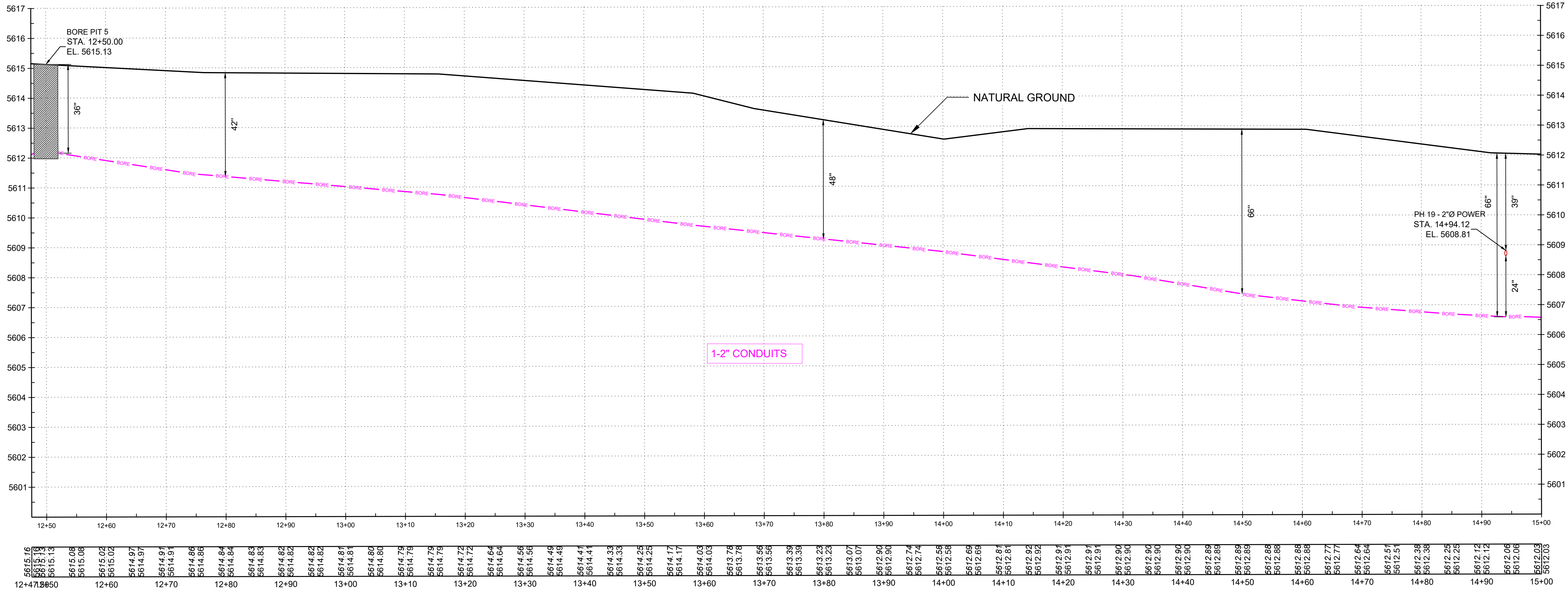
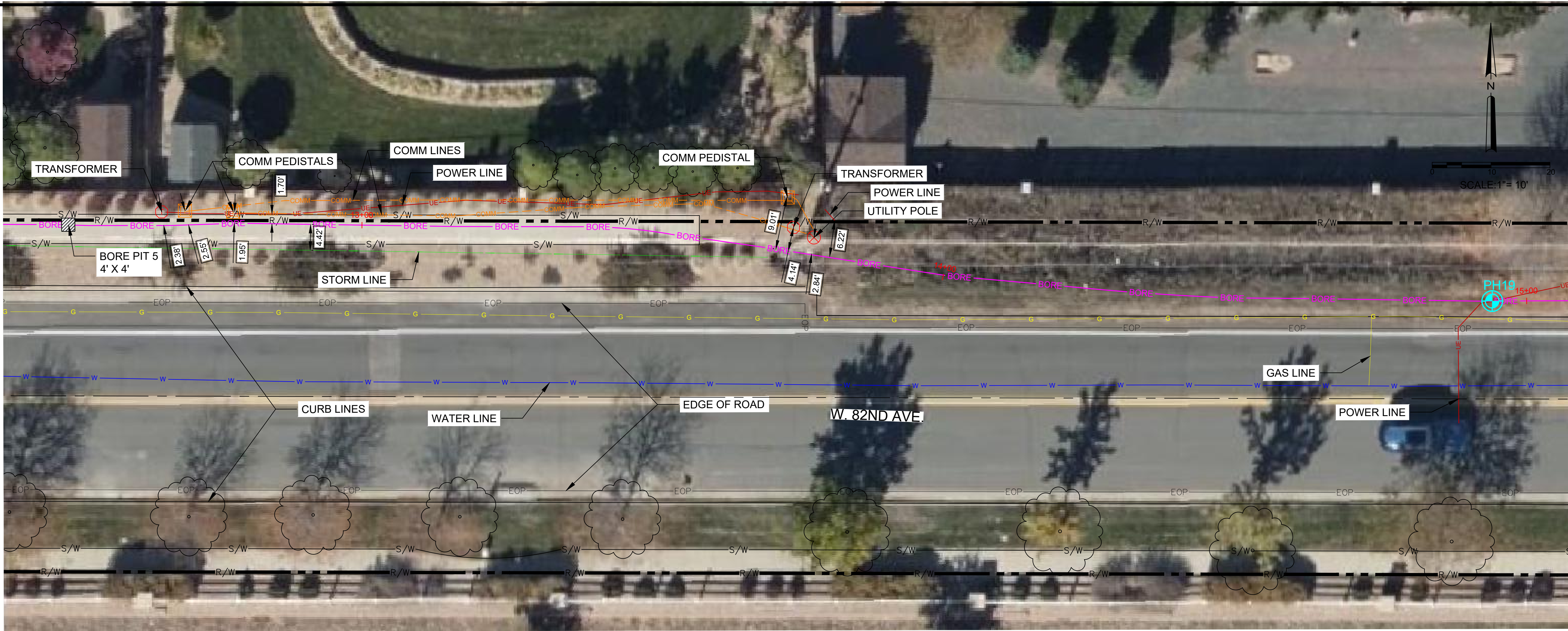
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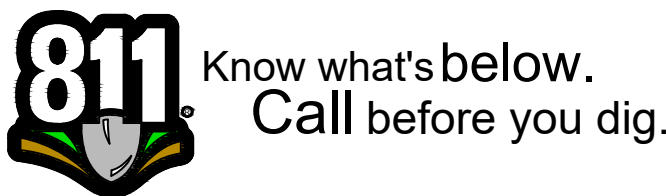


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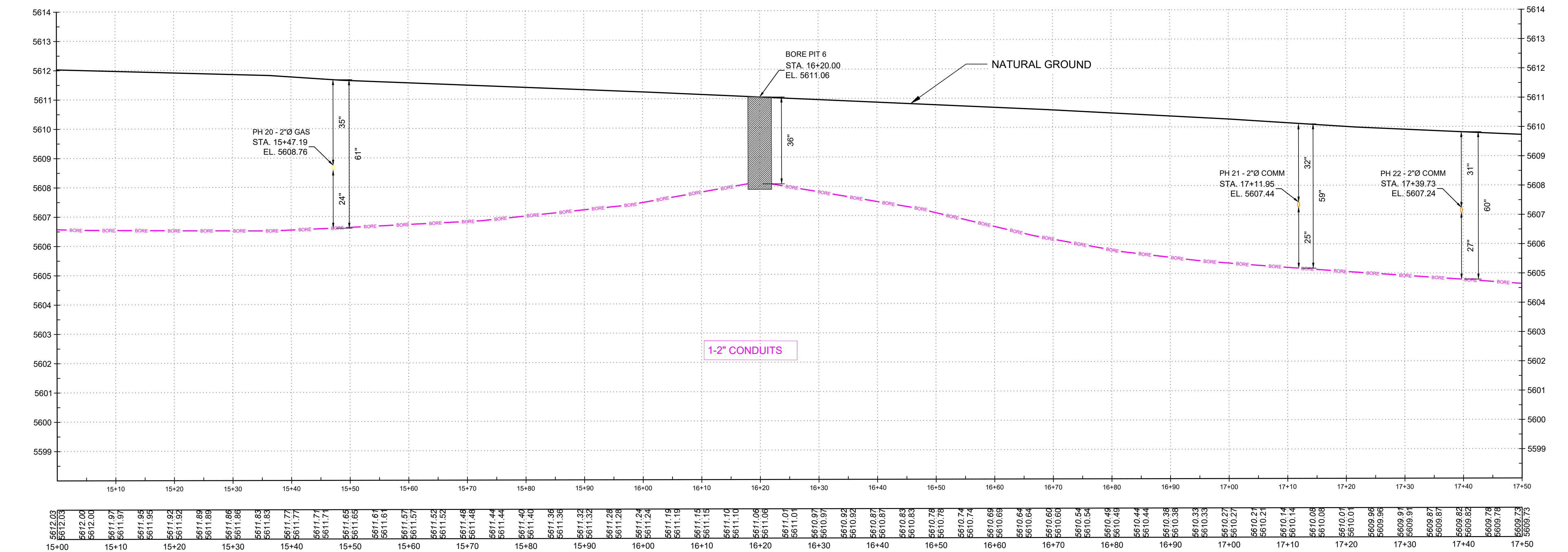
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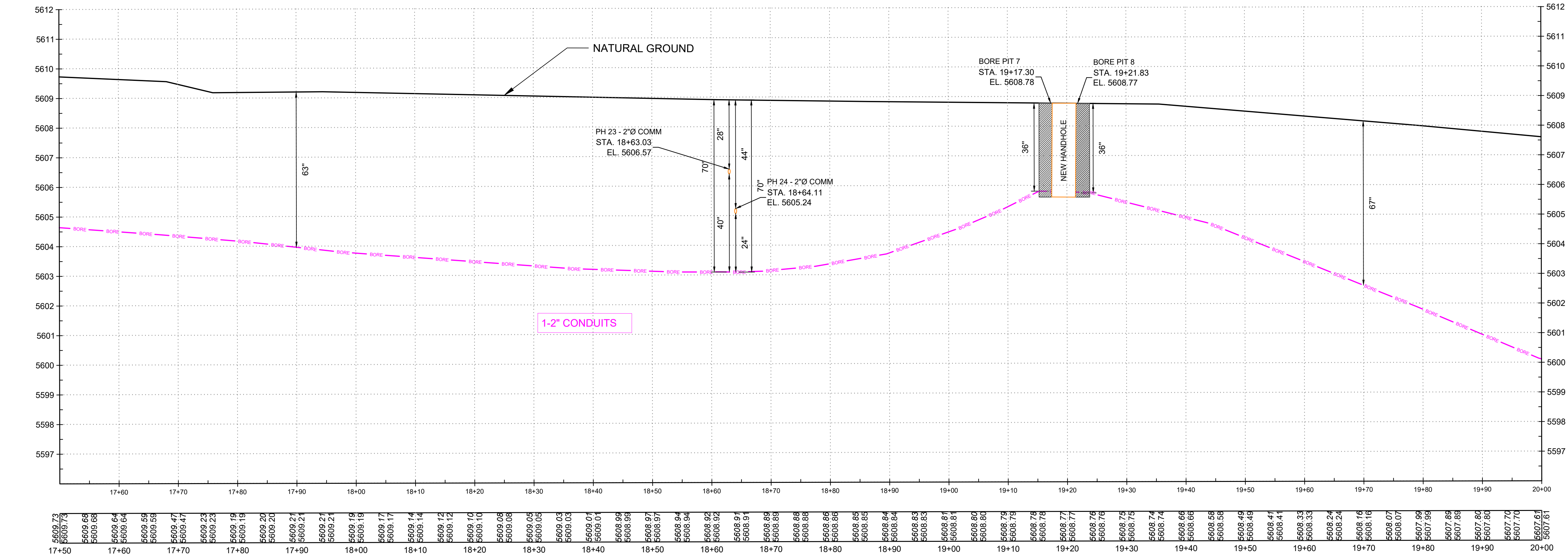
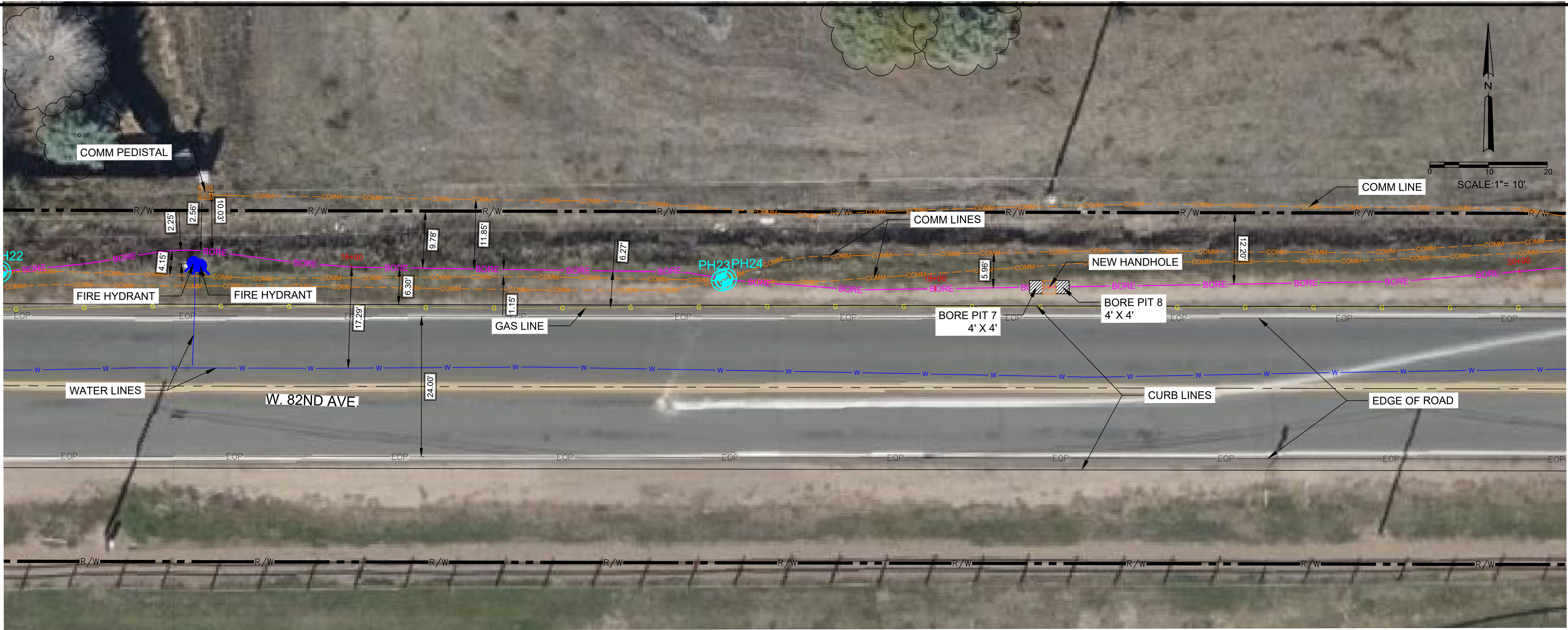
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MCI METRO ACCESS
TRANSMISSION SERVICES

STEVE VALDEZ
ENGINEER III, SOUTHWEST REGION
GLOBAL TRANSPORT
ENGINEERING & IMPLEMENTATION

24055 E 6TH AVE
AURORA CO 80018
M 303-538-1022

WYCO

FIELD SERVICES

WYCO FIELD SERVICES, LLC
7935 E PRENTICE AVE SUITE 301
GREENWOOD VILLAGE, CO 80111

PREPARED BY

EMPIRE

ENGINEERING, LLC

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NOTE: UTILITY LOCATIONS ARE APPROXIMATE ONLY. ALL UTILITIES MUST BE LOCATED PRIOR TO ANY EXCAVATION ACTIVITIES. DESIGN LOCATION IS APPROXIMATE. FINAL ALIGNMENT TO BE REVIEWED AND APPROVED BY THE CONSTRUCTION INSPECTOR FOLLOWING UTILITY DESIGN LOCATION IS APPROXIMATE. FINAL ALIGNMENT TO BE REVIEWED AND APPROVED BY THE CONSTRUCTION INSPECTOR FOLLOWING UTILITY LOCATES.

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THIS SET OF PLANS TO STAY ON JOB AT ALL TIMES

APPROVED SUBJECT TO FIELD INSPECTION

0	06/11/2021	INITIAL RELEASE	JET
REV	DATE	DESCRIPTION	BY

PROJECT LOCATION:

SOD HOUSE - C
SECTION 1

PROJECT MGR: ---

TELEPHONE: ---

ENGINEER: ---

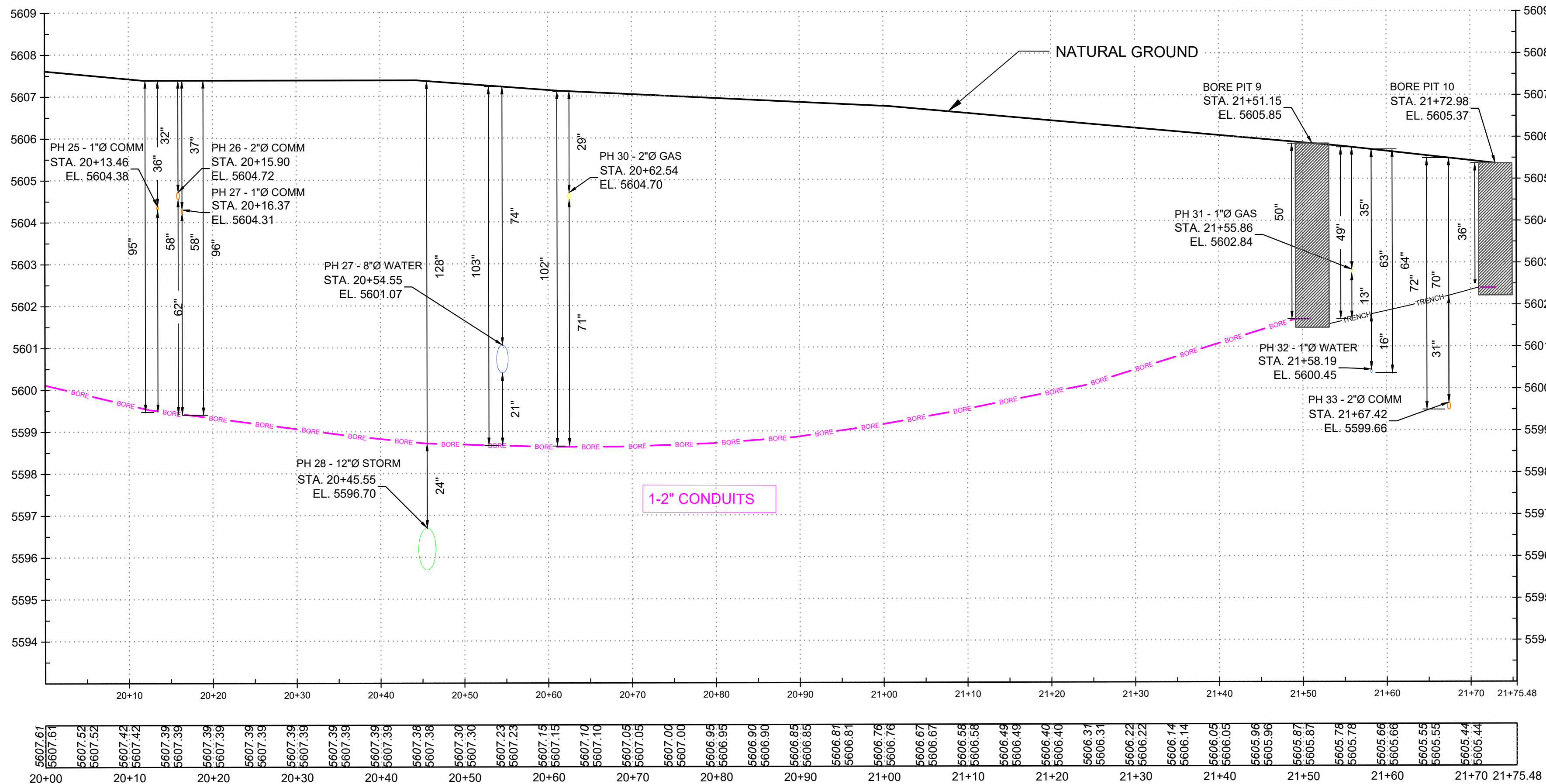
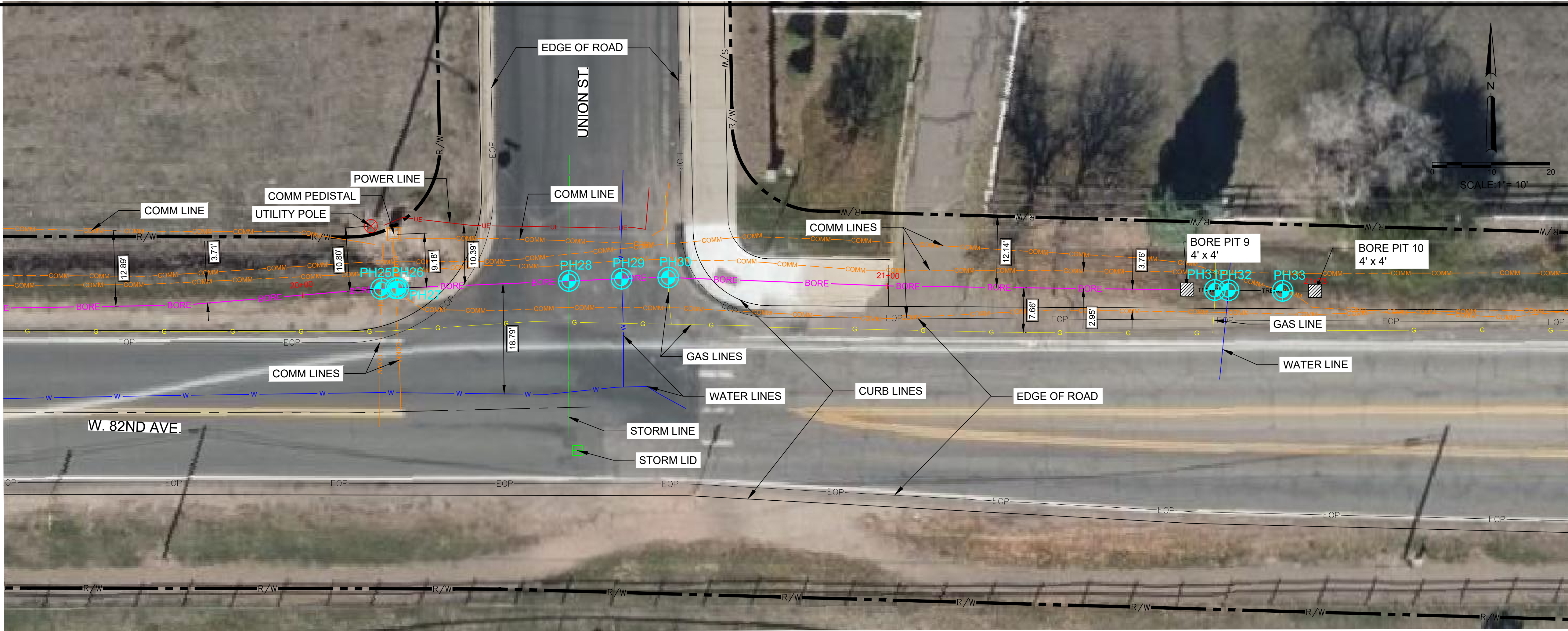
TELEPHONE: ---

SHEET TITLE:

SITE PLAN

SHEET NUMBER:

C8 OF 19



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**SOD HOUSE - C
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SHEET NUMBER:

C9 OF 19

SODHOUSE - C SECTION 1				
POTHOLE #	DESCRIPTION	TOP OF LINE	BOTTOM	SIZE LINE
1	WATER	63"	64"	1"
2	WATER	53"	61"	8"
3	GAS	34"	35"	1"
4	WATER	54"	55"	1"
5	COMM	34"	35"	1"
6	COMM	22"	23"	1"
7	COMM	22"	23"	1"
8	COMM	29"	31"	2"
9	WATER	65"	77"	12"
10	WATER	49"	50"	1"
11	GAS	30"	31"	1"
12	COMM	36"	38"	2"
13	COMM	21"	23"	2"
14	POWER	49"	50"	1"
15	WATER	53"	77"	24"
16	WATER	50"	74{"	24"
17	STORM	20"	44"	24"
18	GAS	42"	44"	2"
19	POWER	39"	41"	2"
20	GAS	35"	37"	2"
21	COMM	32"	34"	2"
22	COMM	33"	31"	2"
23	COMM	28"	30"	2"
24	COMM	44"	46"	2"
25	COMM	36"	37"	1"
26	COMM	32"	34"	2"
27	COMM	37"	38"	1"
28	STORM	128"	140"	12"
29	WATER	74"	82"	8"
30	GAS	29"	31"	2"
31	GAS	35"	36"	1"
32	WATER	63"	64"	1"
33	COMM	70"	72"	2"

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POTHOLE LOG

SHEET NUMBER:

PL OF 19