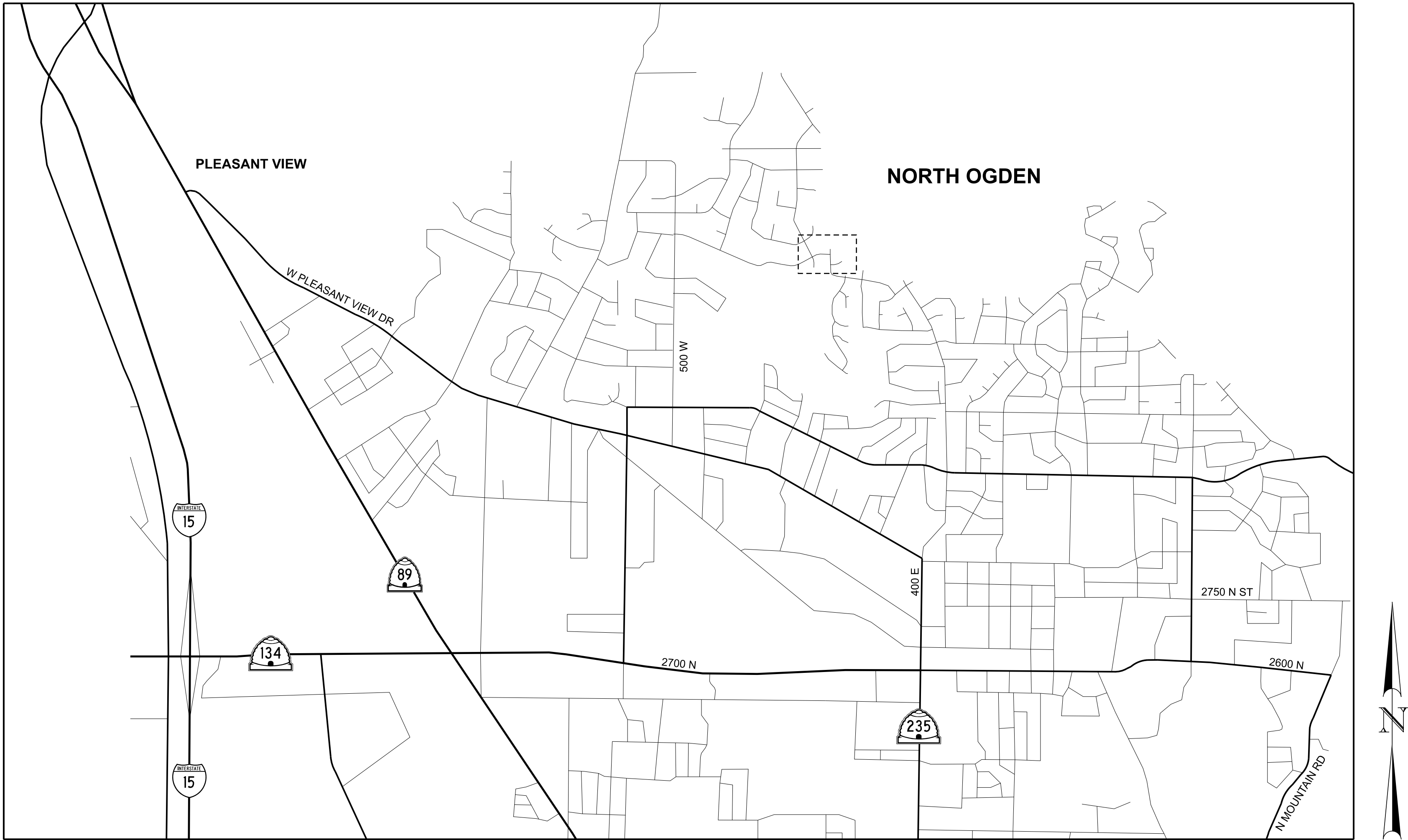
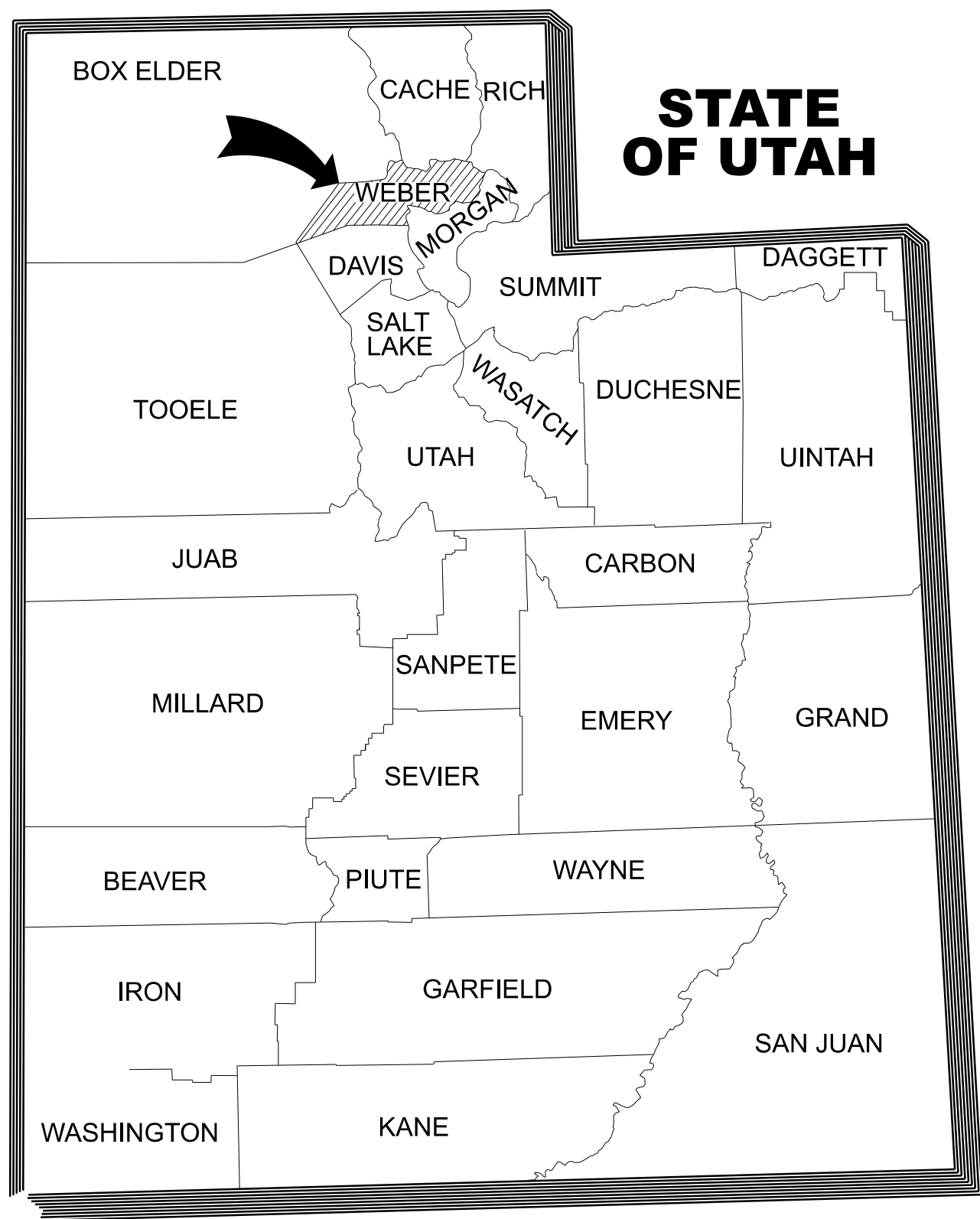
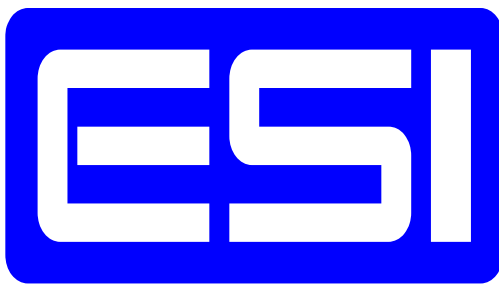


# NORTH OGDEN CITY

## 4050 NORTH 100 EAST STORM DRAIN DESIGN



 **PROJECT LOCATION**

| SHEET INDEX                                                                                                                                                                                                                                                                                               |                    |       |           |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------|-------|-----------|
| SHEET NO.                                                                                                                                                                                                                                                                                                 | SHEET TITLE        |       |           |
| 1                                                                                                                                                                                                                                                                                                         | TITLE SHEET        |       |           |
| 2                                                                                                                                                                                                                                                                                                         | NOTES AND CONTACTS |       |           |
| 3                                                                                                                                                                                                                                                                                                         | OVERALL SITE PLAN  |       |           |
| 4                                                                                                                                                                                                                                                                                                         | GRADING & DRAINAGE |       |           |
| 5                                                                                                                                                                                                                                                                                                         | DETAILS            |       |           |
| <div><div></div><div><div>ESI ENGINEERING</div><div>CONSULTING ENGINEERS AND LAND SURVEYORS</div><div>4141 W 2100 S SUITE 100</div><div>WEST VALLEY CITY, UTAH 84120</div><div>TEL: (801) 263-1752</div></div></div> |                    |       |           |
| DESIGN                                                                                                                                                                                                                                                                                                    | MDF                | CHECK | BFC       |
| DRAWN                                                                                                                                                                                                                                                                                                     | MDF                | CHECK | BFC       |
| QUANT.                                                                                                                                                                                                                                                                                                    | MDF                | CHECK | BFC       |
| APPROVED _____ DATE _____ CITY ENGINEER _____                                                                                                                                                                                                                                                             |                    |       |           |
| PROJECT NUMBER                                                                                                                                                                                                                                                                                            | 23-093             |       | OF<br>1 5 |

| NO        | BY | DATE | REMARKS |
|-----------|----|------|---------|
| REVISIONS |    |      |         |

GENERAL

1.

ALL CONSTRUCTION SHALL COMPLY WITH THE STANDARD DRAWINGS AND SPECIFICATIONS OF THE CITY UNLESS OTHERWISE NOTED.
2.

EXISTING UTILITY LOCATIONS SHOWN MAY NOT BE EXACT AND ALL UTILITIES MAY NOT BE SHOWN. CONTACT BLUE STAKES, SEWER DISTRICT, IRRIGATION COMPANY & ANY OTHER REQUIRED UTILITY COMPANY PRIOR TO EXCAVATION.
3.

THE CONTRACTOR SHALL HAVE ON SITE AT ALL TIMES AT LEAST ONE COPY OF THE SIGNED APPROVED PLANS & SPECIFICATIONS, AS WELL AS ALL PERMITS AS REQUIRED TO PERFORM THE WORK.
4.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING A TRAFFIC CONTROL PLAN & PROVIDING ALL TRAFFIC CONTROL DEVICES AS MAY BE REQUIRED FOR CONSTRUCTION, INCLUDING FLAGGING. TRAFFIC CONTROL PLANS SHALL BE REVIEWED AND ACCEPTED BY THE DISTRICT. ALL TRAFFIC SHALL CONFIRM TO THE MOST RECENT VERSION OF THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES AND CITY STANDARDS.
5.

UTILITY TRENCHES ARE TO BE SLOPED OR BRACED & SHEETED AS PER STATE & FEDERAL REQUIREMENTS FOR SAFETY & PROTECTION OF WORKERS & OTHER UTILITIES. THE CONTRACTOR IS RESPONSIBLE FOR ALL PROJECT SAFETY, INCLUDING BUT NOT LIMITED TO: EXCAVATION & SHORING, TRAFFIC CONTROL & SECURITY.
6.

THE CONTRACTOR IS RESPONSIBLE TO COORDINATE & COOPERATE WITH ALL UTILITY COMPANIES WITH REGARD TO RELOCATIONS OR ADJUSTMENTS OF EXISTING UTILITIES DURING CONSTRUCTION TO ASSURE THAT THE WORK IS ACCOMPLISHED IN A TIMELY MANNER & WITH MINIMUM DISRUPTION OF SERVICE.
7.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR RECORD DRAWING INFORMATION & SUBMIT TO THE ENGINEER PRIOR TO FINAL PAYMENT.
8.

CONTRACTOR SHALL PROTECT & NOT DISTURB PROPERTY ADJACENT TO PROJECT I.E. FENCE, LANDSCAPING, MAILBOXES, ETC. ANY DAMAGE TO PUBLIC OR PRIVATE PROPERTY BY CONTRACTOR SHALL BE RESTORED TO EQUAL CONDITION AT CONTRACTORS EXPENSE.
9.

EXISTING DRAINS FROM ADJACENT PROPERTIES ARE TO BE MAINTAINED AND PROTECTED.
10.

THE CONTRACTOR(S) SHALL REMOVE ALL OBSTRUCTIONS, BOTH ABOVE AND BELOW GROUND, AS REQUIRED FOR THE CONSTRUCTION OF THE PROPOSED IMPROVEMENTS. THIS SHALL INCLUDE CLEARING AND GRUBBING WHICH CONSISTS OF CLEARING THE GROUND SURFACE OF ALL TREES, STUMPS, BRUSH, UNDERGROWTH, HEDGES, HEAVY MATERIAL WHICH IN THE OPINION OF THE ENGINEER, IS SUITABLE FOR THE FOUNDATION OF PAVEMENTS OR CONCRETE. ALL MATERIAL NOT SUITABLE FOR FUTURE USE ON SITE SHALL BE DISPOSED OF OFF SITE.
11.

ALL MATERIALS TO BE REMOVED SHALL BE HAULED AWAY & DISPOSED OF IN A SAFE & LEGAL MANNER BY THE CONTRACTOR.
12.

CONTRACTOR IS RESPONSIBLE FOR DEWATERING AND DIVERSION OF GROUND WATER AS NECESSARY TO COMPLETE WORK.
13.

THE CONTRACTOR SHALL EXAMINE THE DRAWING AND SHALL NOTIFY THE OWNER OF AND DISCREPANCIES OR CONFLICTS BEFORE PROCEEDING WITH THE WORK.
14.

THE CONTRACTOR SHALL VERIFY AND BE RESPONSIBLE FOR ALL DIMENSIONS AND CONDITIONS AT THE SITE AND SHALL NOTIFY THE ENGINEER OF DISCREPANCIES BETWEEN THE ACTUAL CONDITIONS AND INFORMATION SHOWN ON THE DRAWINGS BEFORE PROCEEDING WITH THE WORK.
15.

PROPERTY IMPACTED BY PROJECT SHALL BE RESTORED TO EQUAL CONDITION, MATHCING EXISTING MATERIALS. REPLACING SPRINKLERS, DECORATIVE CURBING, ETC.
16.

NEW UTILITY ALIGNMENTS SHALL BE ESTABLISHED IN THE FIELD ACCORDING TO POTHOLE FINDINGS OF EX. UTILITY LINES. ENGINEER TO VERIFY NEW UTILITY ALIGNMENT, PRIOR TO MILLING OR SAW-CUTTING OF ASPHALT.
17.

THE CONTRACTOR IS REQUIRED TO CONTACT THE ENGINEER AT LEAST 24 HOURS PRIOR TO STARTING CONSTRUCTION.

UTILITY CONTACTS

NATURAL GAS

DOMINION ENERGY

JASON MCGEE  
(801) 324-3640

INTERNET

CENTURY LINK

(801) 685-2105  
TAYLOR CONSTANCE

IRRIGATION

PINEVIEW WATER SYSTEMS

DOUG JEPPESEN  
(801) 621-6555 EXT. 1351

WATER

NORTH OGDEN CITY

JASON RENEY  
WATER SYSTEMS  
SUPERINTENDENT  
(801) 782-8111

POWER

PACIFICORP

(503) 813-6993  
JOEL B SIMMONS

COMMUNICATION

LUMEN

(801) 685-2105  
TAYLOR CONSTANCE

INTERNET

COMCAST

(435) 224-2356  
JEFF HOUSTON

SEWER

NORTH OGDEN CITY

TRENT WILKINS  
SANITARY SEWER  
SUPERINTENDENT  
(801) 782-8111

CAUTION: NOTICE TO CONTRACTOR

THE CONTRACTOR IS SPECIFICALLY CAUTIONED THAT THE LOCATION AND/OR ELEVATION OF EXISTING UTILITIES AS SHOWN ON THESE PLANS ARE BASED ON RECORDS OF THE VARIOUS UTILITY COMPANIES AND, WHERE POSSIBLE, MEASUREMENTS TAKEN IN THE FIELD. THE INFORMATION IS NOT TO BE RELIED ON AS BEING EXACT OR COMPLETE. THE CONTRACTOR MUST CALL THE LOCAL UTILITY LOCATION CENTER AT LEAST 48 HOURS BEFORE ANY EXCAVATION TO REQUEST EXACT FIELD LOCATIONS OF THE UTILITIES. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO RELOCATE ALL EXISTING UTILITIES WHICH CONFLICT WITH THE PROPOSED IMPROVEMENTS SHOWN ON THE PLANS. IF A CONFLICT IS IDENTIFIED, THE ENGINEER OF RECORD SHOULD BE CONTACTED IMMEDIATELY, PRIOR TO ANY FURTHER WORK BEING DONE RELATED TO THE ISSUE.

DRAIN PIPE & TRENCH NOTES

1.

BURIED DRAIN PIPE WITH CLOSED OR OPEN JOINTS OR PERFORATED PIPE SHALL BE PROVIDED FOR THE DRAINS IN THE LOCATIONS SHOWN ON THE DRAWINGS. THE CONTRACTOR SHALL FURNISH AND LAY THE DRAIN PIPE.
2.

TRENCHES SHALL BE KEPT FREE FROM WATER DURING EXCAVATION, FINE GRADING, PIPE LAYING AND JOINTING, AND PIPE EMBEDMENT OPERATIONS IN AN ADEQUATE AND ACCEPTABLE MANNER. WHERE THE TRENCH BOTTOM IS MUCKY OR OTHERWISE UNSTABLE BECAUSE OF PRESENCE OF GROUNDWATER, AND IN ALL CASES WHERE THE STATIC GROUNDWATER ELEVATION IS ABOVE THE BOTTOM OF ANY TRENCH OR BELL HOLE EXCAVATION, SUCH GROUNDWATER SHALL BE LOWERED TO THE EXTENT NECESSARY TO KEEP THE TRENCH FREE FROM WATER AND THE TRENCH BOTTOM STABLE WHEN THE WORK WITHIN THE TRENCH IS IN PROGRESS. THE DISCHARGE FROM TRENCH DEWATERING SHALL BE CONDUCTED TO NATURAL DRAINAGE CHANNELS, GUTTERS, OR DRAINS. SURFACE WATER SHALL BE PREVENTED FROM ENTERING TRENCHES.
3.

FOR OPEN JOINT OR PERFORATED PIPE, GRAVEL BACKFILL SHALL BE PLACED UNDER AND OVER THE PIPE TO THE MINIMUM DEPTH AS SHOWN ON THE DRAWINGS. A GEOTEXTILE DRAINAGE FABRIC, APPROVED BY THE CITY ENGINEER SHALL BE USED TO ENCLOSE THE GRAVEL ENVELOPE AROUND THE PIPE SECTION. THE PIPE SHALL BE LAID CAREFULLY ON THE GRAVEL IN A WORKMANLIKE MANNER AND TO THE LINES AND GRADES SHOWN ON THE DRAWINGS ESTABLISHED BY THE ENGINEER. THE JOINTS FOR THE UNPERFORATED PIPE SHALL BE COVERED WITH ASPHALT SATURATED FELT STRIPS PLACED TO EXTEND OVER THE UPPER HALF OF THE CIRCUMFERENCE OF THE PIPE AND TO NOT LESS THAN 4-1/2 INCHES IN EACH DIRECTION FROM THE JOINT.



PROJECT SPECIFICATIONS AND STANDARDS

1.

NORTH OGDEN CITY STANDARDS & SPECIFICATIONS LATEST EDITION
2.

UTAH DIVISION OF WATER QUALITY(DWQ) UAC R317-2
3.

APWA STANDARDS AND SPECIFICATIONS LATEST EDITION

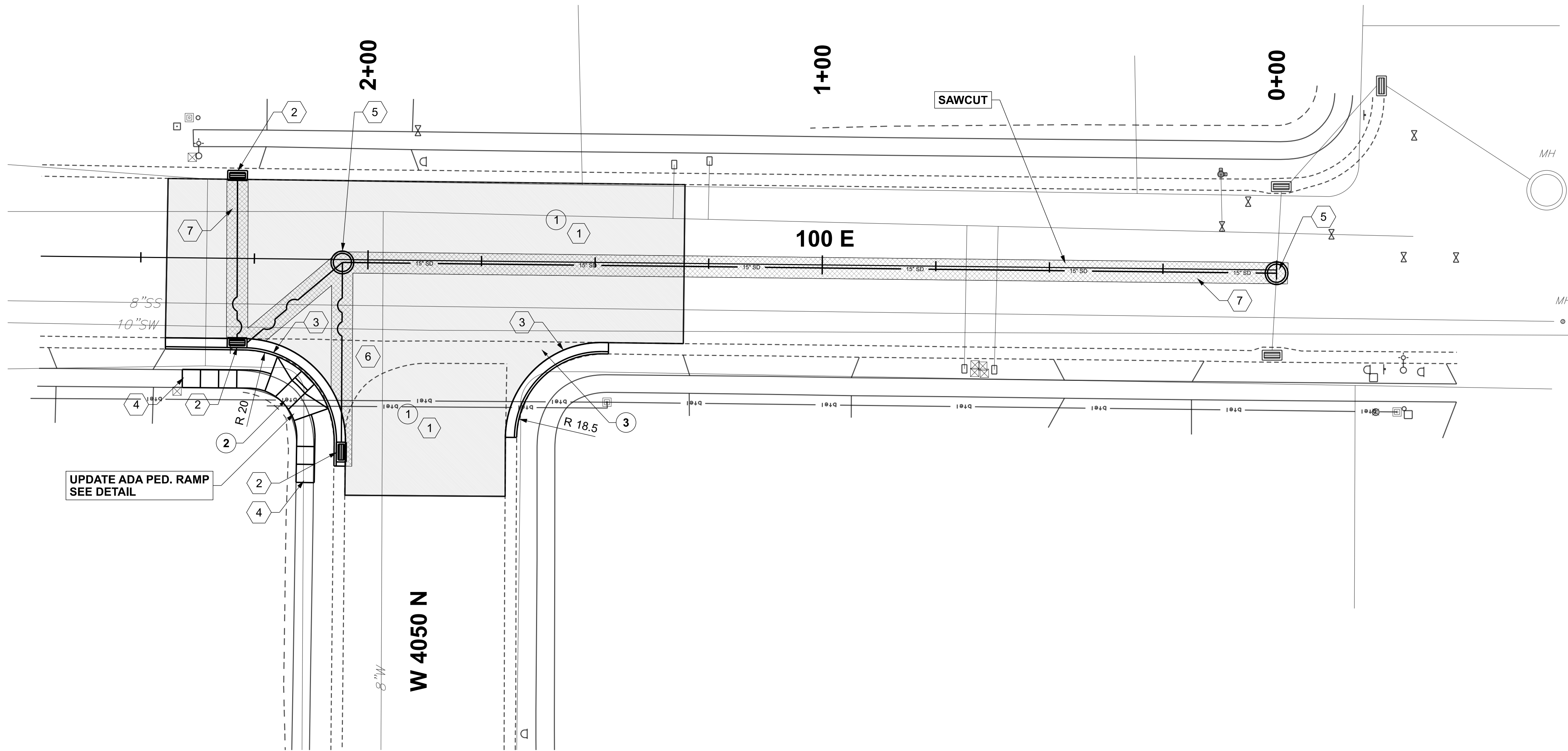
ESI ENGINEERING  
CONSULTING ENGINEERS  
AND LAND SURVEYORS  
4141 WEST 2100 SOUTH SUITE 100  
WEST VALLEY CITY, UT 84120  
801-263-1782 • FAX 801-263-1780



DESIGNED BY: MGF  
DRAWN BY: MGF  
DATE: 06-16-2023  
CHECKED BY: BFC

4050 NORTH 100 EAST  
STORM DRAIN DESIGN  
NORTH OGDEN CITY, UT

G-002  
NOTES &  
CONTACTS  
PROJECT #  
23-093

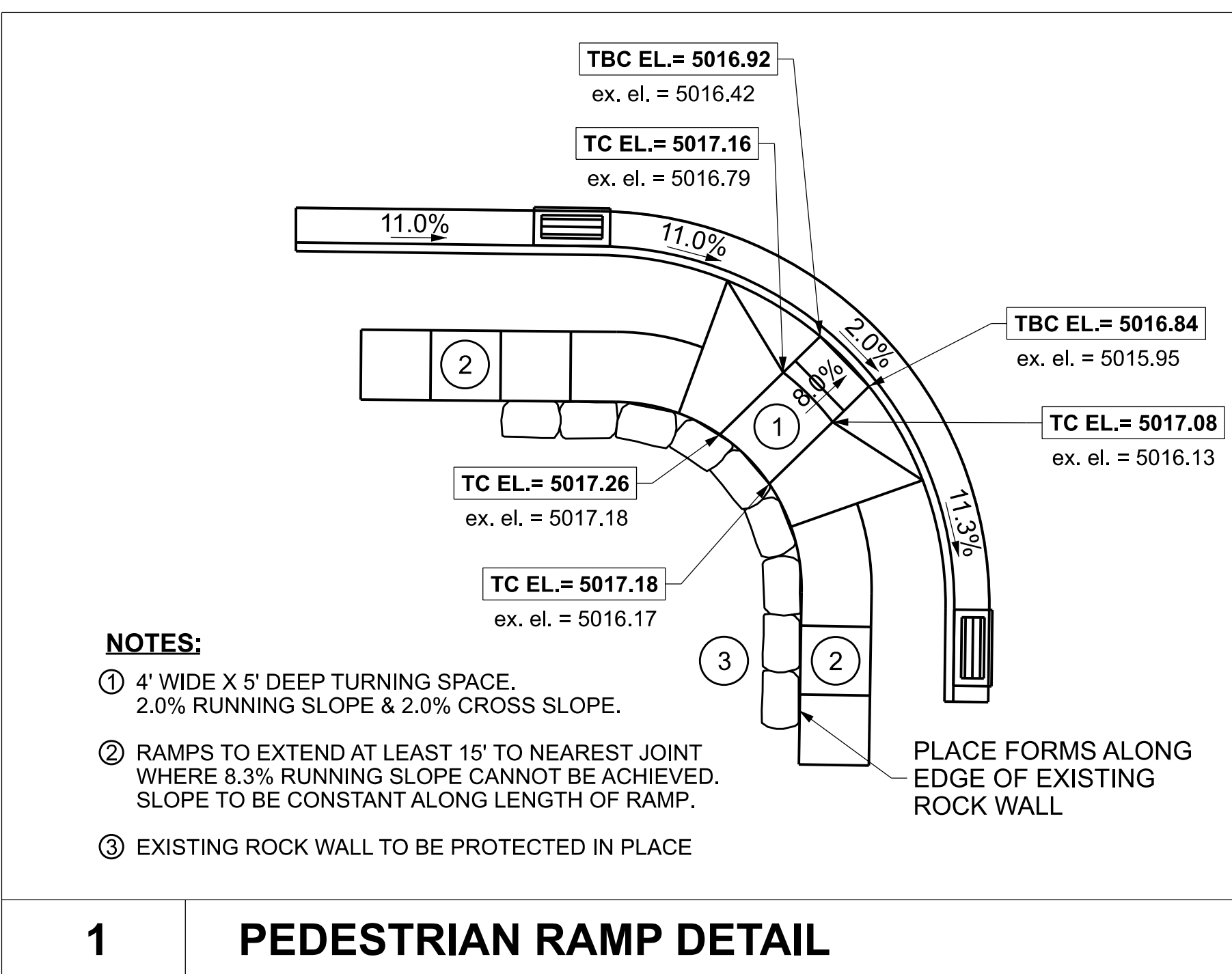


### DEMOLITION NOTES

- 1 REMOVE ASPHALT
- 2 REMOVE EX. PED RAMP
- 3 REMOVE CONCRETE WATERWAY

### CONSTRUCTION NOTES

- 1 INSTALL NEW 3" THICK ASPHALT OVER 8" COMPACTED BASE COURSE
- 2 INSTALL NEW INLET BOX
- 3 INSTALL NEW 18" CURB AND GUTTER
- 4 INSTALL NEW SIDEWALK
- 5 INSTALL NEW STORM DRAIN MANHOLE
- 6 SOFT SPOT REPAIR AS NEEDED
- 7 ASPHALT PATCH



### LEGEND

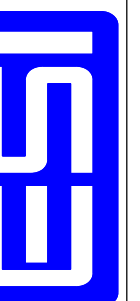
- WATER VALVE & LINE
- POWER POLE & LINE
- SEWER MANHOLE & LINE
- TELEPHONE PEDESTAL & LINE
- STORM DRAIN MANHOLE & LINE
- IRRIGATION VALVE & LINE
- IRRIGATION JUNCTION BOX
- CABLE TV BOX & LINE
- EXISTING FIRE HYDRANT
- ELECTRICAL TRANSFORMER

- BUILDING
- GAS LINE
- NEW CONTOURS
- FENCE
- EXISTING CURB & GUTTER
- SIDEWALK
- SAWCUT FOR STORM DRAIN TRENCH
- ROAD REBUILD AREA (APPROX. 5,400 S.F.)

SCALE 1:15  
PRINT 24" X 36"



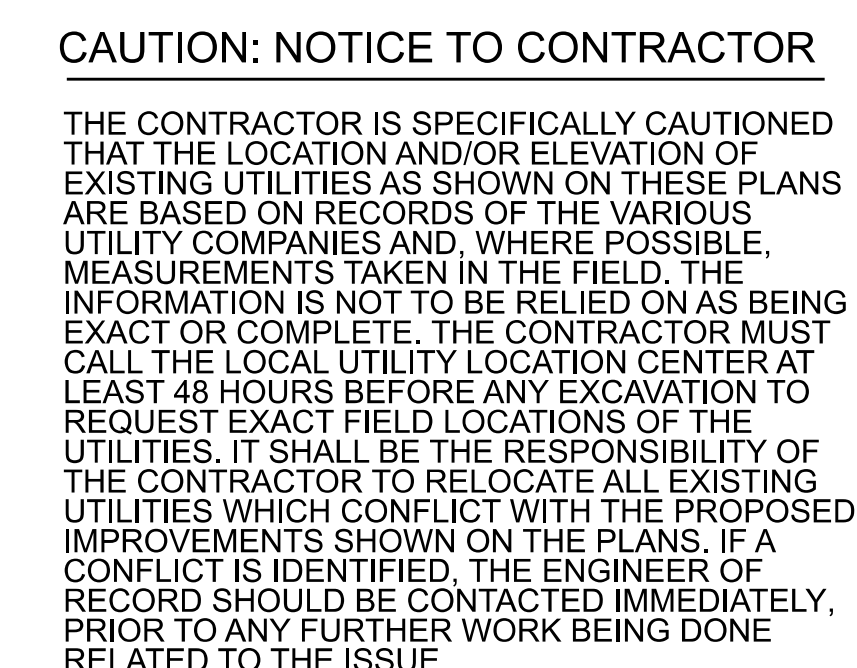
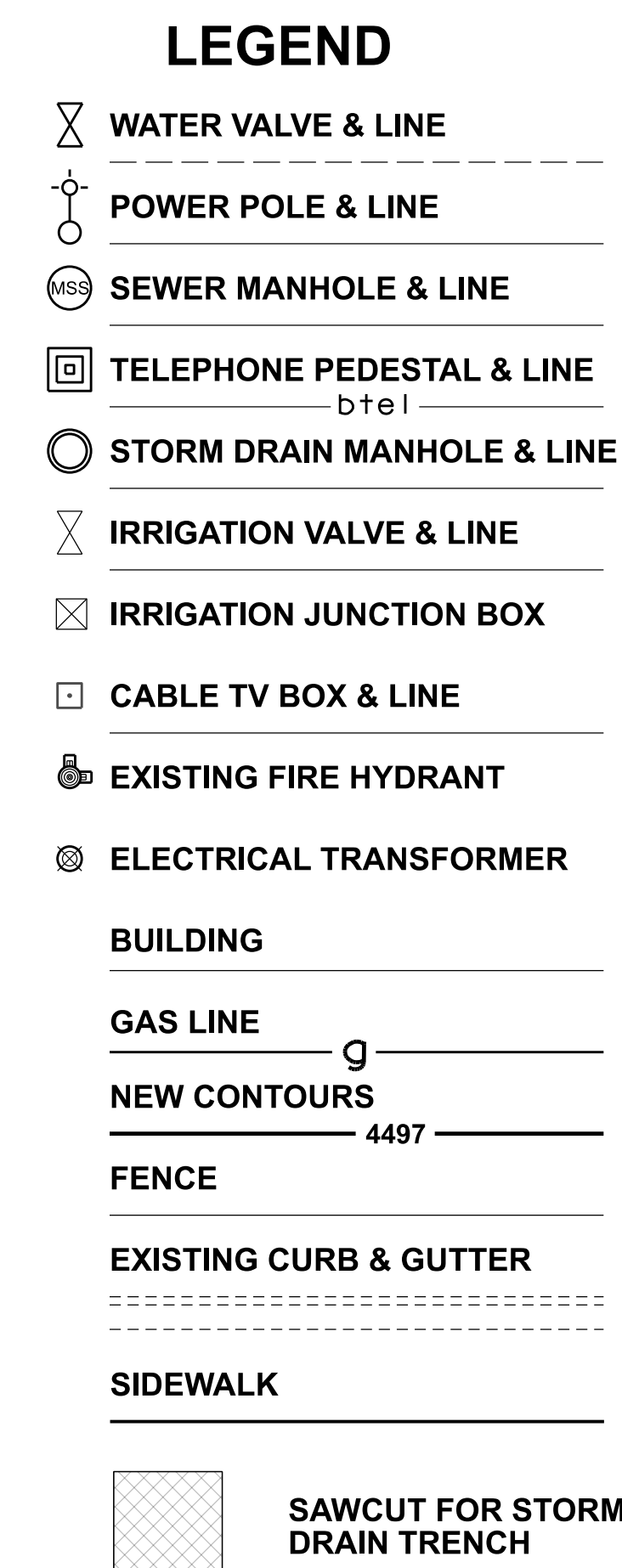
ESI ENGINEERING  
CONSULTING ENGINEERS  
AND LAND SURVEYORS  
4141 WEST 2400 SOUTH SUITE 100  
WEST VALLEY CITY, UT 84120  
801-263-1752 - FAX 801-263-1780



DESIGNED BY: MGP  
DRAWN BY: MGP  
CHECKED BY: BFC  
DATE: 06-16-2023

4050 NORTH 100 EAST  
STORM DRAIN DESIGN  
NORTH OGDEN CITY, UT

C-101  
OVERALL  
SITE  
PLAN  
PROJECT #  
23-093



**SCALE 1:15**  
**PRINT 24" X 36"**

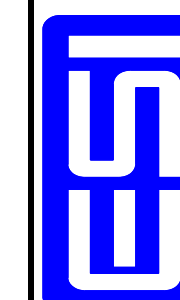
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**ESI ENGINEERING**  
CONSULTING ENGINEERS  
AND LAND SURVEYORS

4141 WEST 2100 SOUTH SUITE 100  
WEST VALLEY CITY, UT 84120

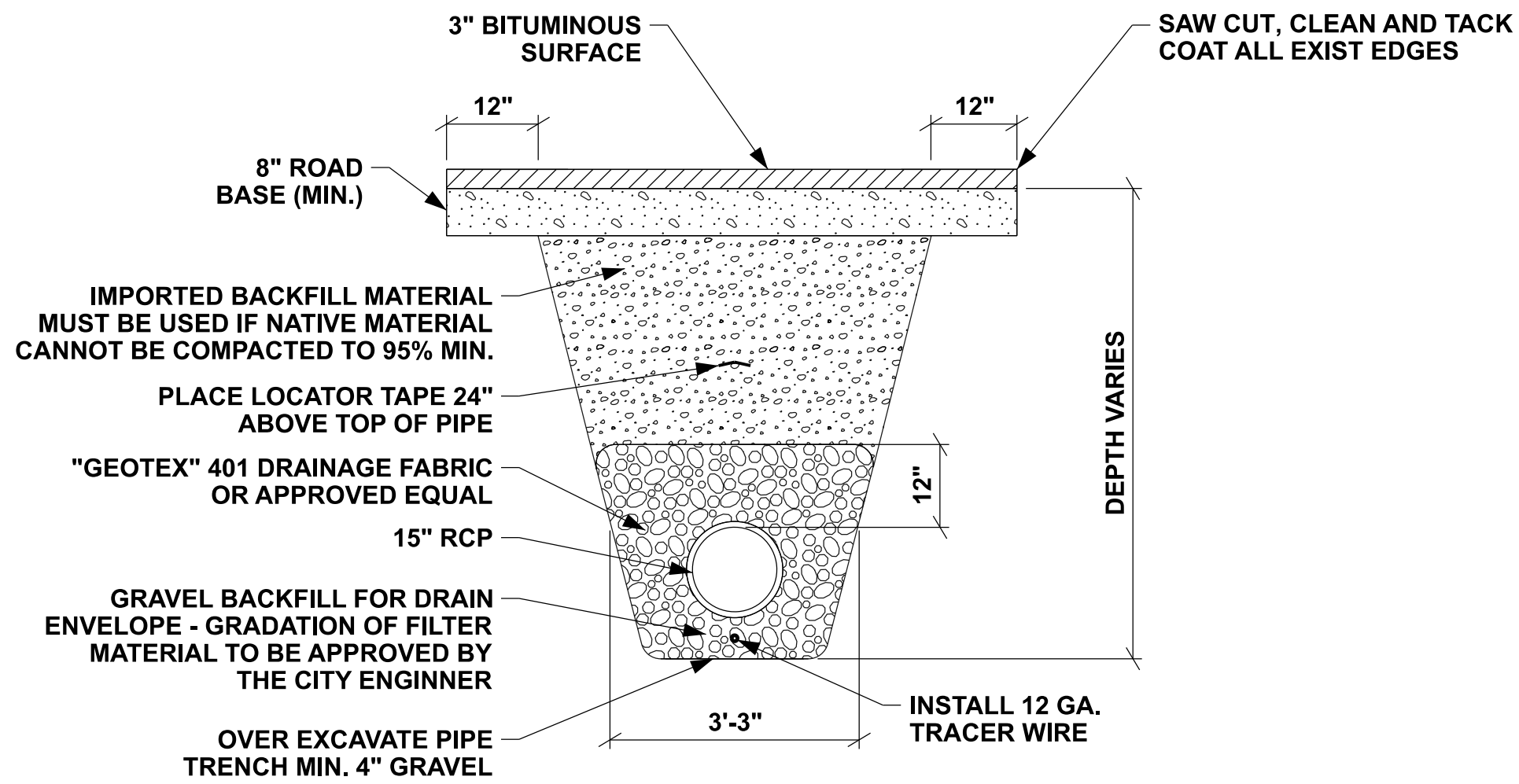
801-263-1752 • FAX 801-263-1780



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|------------------|-----------------|
| DESIGNED BY: MDF | CHECKED BY: BFC |
| DRAWN BY: MDF    |                 |
| DATE: 06-16-2023 |                 |

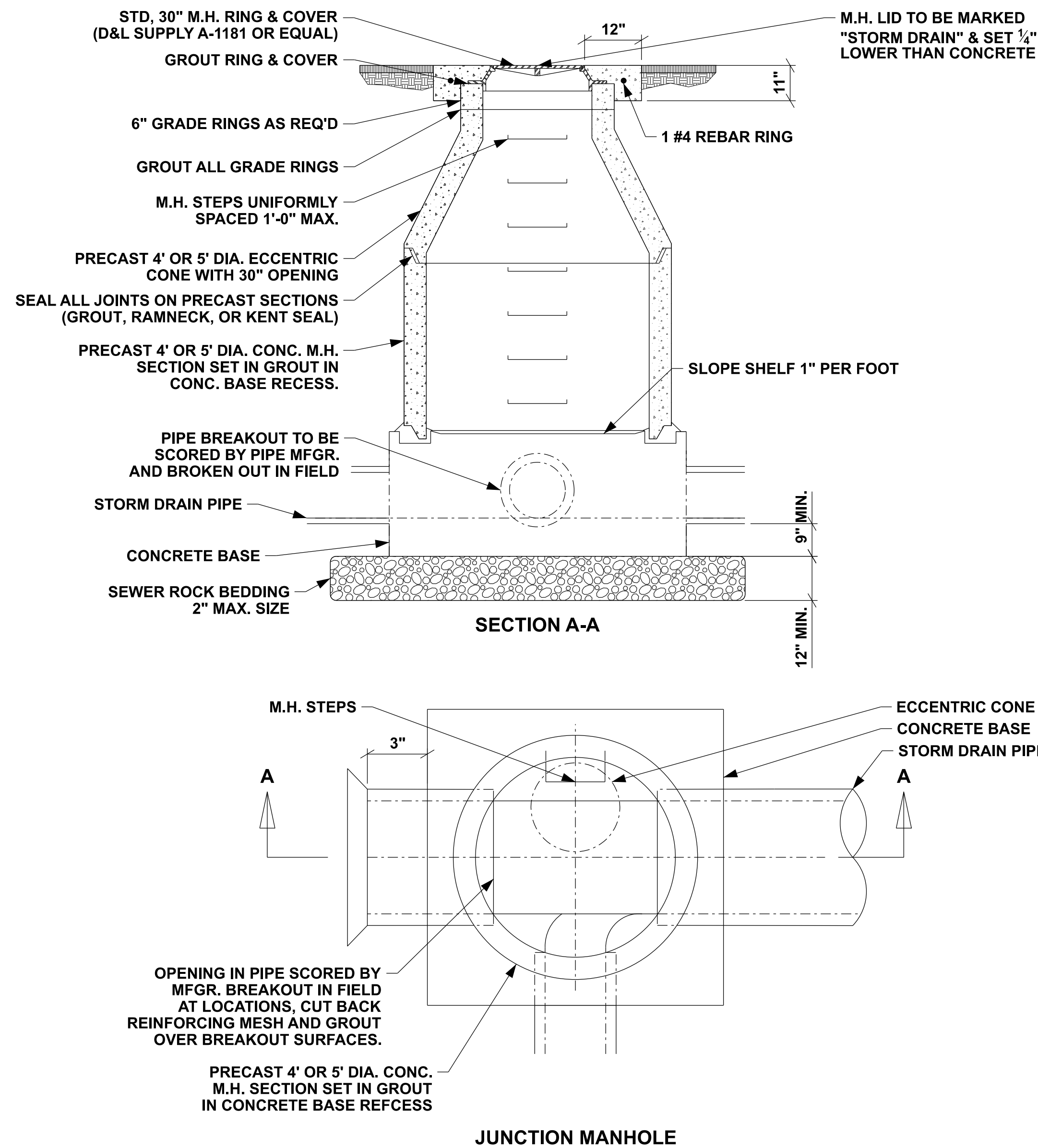
4050 NORTH 100 EAST  
STORM DRAIN DESIGN  
NORTH OGDEN CITY, UT

C-201  
GRADING &  
DRAINAGE  
PROJECT #  
23-093



|          |                               |
|----------|-------------------------------|
| <b>B</b> | <b>TYPICAL TRENCH SECTION</b> |
|----------|-------------------------------|

|     |          |
|-----|----------|
| NTS | SEE PLAN |
|-----|----------|



|   |                       |
|---|-----------------------|
| D | CAST IN PLACE MANHOLE |
|---|-----------------------|

|     |          |
|-----|----------|
| NTS | SEE PLAN |
|-----|----------|