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To: Prospective Bidders
From: Wold Architects and Engineers
Date: February 22, 2016
Comm. No: 133030

Subject: Addendum No. 1 for Bidding Documents for the: **Scott County Sheriff Patrol Headquarters**

BIDS DUE MARCH 7, 2016 AT 1:00 P.M.

This addendum forms a part of the Contract Documents dated February 8, 2016. Acknowledge receipt of this Addendum on the space provided on the Bid Form. Failure to do so may result in disqualification of Bid.

This Addendum consists of two (2) typed sheets and the following attachments:

Project Manual: 07 46 00 Manufactured Roof and Wall Panels

Drawings: C1.03 Site Plan, C1.05 Site Plan Details, C1.06 Grading and Erosion Plan, C1.08 Utility Plan, C1.09 Site Utility Plan Details and Notes, C1.10 Utility Plan Details II, C1.11 Utility Plan Details III, E1.0 Main Level Lighting Plan, E2.0 Main Level Power Plan, E3.0 Main Level Data and Communications Plan, E7.0 Electrical Schedules, E7.1 Electrical Schedules

PRIOR APPROVALS

The following schedule amends designated specification sections to list additional acceptable manufacturers. Use of any product by any of these manufacturers will be permitted only if after review of shop drawings or detailed product data per Section 01 33 00, Architect determines that proposed materials or equipment are equivalent in performance, construction and appearance to product(s) specified.

Where anticipated product substitutions would alter the design or space requirements indicated on the Drawings, pay for cost of design and construction revisions including the cost of associated work by other contractors.

For complete requirements, see Specification Section 01 25 00 – Substitutions and Product Options.

<u>Section No.</u>	<u>Item</u>	<u>Type</u>	<u>Acceptable Manufacturer</u>
08 10 00	2.01.A	Steel Doors & Frames	Republic
08 10 00	2.01.A	Steel Doors & Frames	MPI (for thermally broken frames only)

PROJECT MANUAL

1. **SECTION 07 46 00 MANUFACTURED ROOF AND WALL PANELS**
 - A. Reissued this Addendum.

DRAWINGS

1. **SHEET C1.03 – SITE PLAN**
 - A. Reissued this Addendum.
2. **SHEET C1.05 – SITE PLAN DETAILS**
 - A. Reissued this Addendum.

Minnesota
Illinois
Michigan
Colorado
Iowa

3. **SHEET C1.06 – GRADING AND EROSION CONTROL PLAN**
A. Reissued this Addendum.
4. **SHEET C1.08 – UTILITY PLAN**
A. Reissued this Addendum.
5. **SHEET C1.09 – SITE UTILITY PLAN DETAILS AND NOTES**
A. Reissued this Addendum.
6. **SHEET C1.10 – UTILITY PLAN DETAILS II**
A. Reissued this Addendum.
7. **SHEET C1.11 – UTILITY PLAN DETAILS III**
A. Reissued this Addendum.
8. **SHEET E1.0 – MAIN LEVEL LIGHTING PLAN**
A. Reissued this Addendum.
9. **SHEET E2.0 – MAIN LEVEL POWER PLAN**
A. Reissued this Addendum.
10. **SHEET E3.0 – MAIN LEVEL DATA AND COMMUNICATIONS PLAN**
A. Reissued this Addendum.
11. **SHEET E7.0 – ELECTRICAL SCHEDULES**
A. Reissued this Addendum.
12. **SHEET E7.1 – ELECTRICAL SCHEDULES**
A. Reissued this Addendum.

END OF ADDENDUM #1

SECTION 07 46 00

MANUFACTURED ROOF AND WALL PANELS

PART 1: GENERAL

1.01 RELATED DOCUMENTS

- A. Drawings, Details of Construction and general provisions of Contract, including General and Supplementary Conditions and Division-1 Specification Sections, apply to work specified in this section.

1.02 SUMMARY

- A. Section includes:
 - 1. Field-assembled steel wall siding with exposed fasteners, hat channels, trim and flashing and metal coping above steel-sided walls as detailed.
- B. Related work specified elsewhere: The following sections contain requirements that relate to this Section:
 - 1. Structural gage framing - Section 05 40 00.
 - 2. Flashing and Sheet Metal - Section 07 62 00.
 - 3. Division 7 - Section "Flashings", "Roofing".
 - 4. Sealants for field-applied panel sealants - Section 07 92 00.
 - 5. Aluminum flashings at windows – Division 8.

1.03 QUALITY ASSURANCE

- A. Provide certified test results by a recognized testing laboratory or agency in accordance with specified test methods for each system.
- B. Air Infiltration: Provide roof panel system with no air leakage when tested in accordance with ASTM E 283 at pressure differentials up to 1.57 psf.
- C. Air Infiltration: Provide wall panel systems with an air infiltration rate of not more than 0.06 cfm per sq. ft. of fixed wall area when tested in accordance with ASTM E 283 at a static air pressure differential of 1.57 psf.
- D. Wind Uplift: Provide roof panel system including supports meeting requirements of Underwriters Laboratories, Inc. for Class 90 wind uplift resistance.
- E. Hail Rating: Class 4, UL 2218.
- F. Warranty
 - 1. Finish Warranty: Furnish panel manufacturer's written warranty covering failure of the factory-applied exterior finish on metal wall and roof panels within the warranty period. This warranty shall be in addition to and not a limitation of other rights the Owner may have against the Contractor under the Contract Documents.

2. Warranty period for factory-applied exterior finishes on wall and roof panels is 20 years after the date of Substantial Completion.

1.04 SUBMITTALS

- A. Submit in accordance with Section 01 33 00.
 1. Product data including manufacturer's product specifications, standard details, certified product test results, installation instructions, and general recommendations, as applicable to materials and finishes for each component and for total panel system.
 2. Samples for verification purposes of roof and wall panels. Provide sample panels 12 inches long by actual panel width, in the profile, style, color, and texture indicated. Include clips, battens, fasteners, closures, and other panel accessories.
 3. Shop Drawings showing layouts of panels on walls and roofs, details of edge conditions, joints, corners, panel profiles, supports, anchorages, trim, flashings, closures, and special details. Distinguish between factory and field assembly work.

PART 2: PRODUCTS

2.01 MANUFACTURERS

- A. Products by Centria are specified. Equivalent systems by Firestone/UNA-CLAD, Corrugated Metals, Inc., Flexospan; Metal Building Components, Inc., Molenco; ASC Pacific, Inc., Berridge Manufacturing Company, Peterson Aluminum/PAC-CLAD are acceptable subject to meeting the specifications and approval of Architect.

2.02 MATERIALS

- A. Panel base metal conforming to AISA-G90 galvanized steel with Kynar 500/Hylar 5000 finish.
 1. Minimum Yield: 33 to 45 KSI.
 2. Thermal Expansion: 06.7×10^{-6} in/in/F°.
 3. Mod of Elasticity: 29.0×10^6 x KSI.
- B. Exterior panels
 1. Manufactured Wall Panel #1 – Roll Formed Centria Concept Series CS-200 with microseam mitred corner assemblies.
 - a. Panel Profile: 7/8"
 - b. Panel Thickness: **22 gauge**
 - c. Panel Width: 12" net coverage
 - d. Minimum Panel Length: 60" – see elevations for intended joint locations.
 - e. Maximum Panel Length: 600" - see elevations for intended joint locations.
 - f. Panel Surface: Smooth.
 - g. See Material Finish/Color Schedule, on Architectural Drawings.
 2. Manufactured Wall Panel #2 – Roll Formed Centria Concept Series CS-260 with microseam mitred corner assemblies.
 - a. Panel Profile: 7/8"
 - b. Panel Thickness: **22 gauge**
 - c. Panel Width: 12" net coverage
 - d. Minimum Panel Length: 60" – see elevations for intended joint locations.

- e. Maximum Panel Length: 600" - see elevations for intended joint locations.
- f. Panel Surface: Smooth.
- g. See Material Finish/Color Schedule, on Architectural Drawings.

C. Accessories

1. Secondary framing members to be zee shaped formed from 16 gauge galvanized steel.
2. Flashing and coping to be formed from the same materials and in the same finish as the roof and wall panel.
3. Fasteners to be self tapping #14B paint or self drilling #12 for sheet to support as required by the support thickness a #14 self-tapping AB point or lap self-drilling fasteners for sheet to sheet attachment. Use stainless steel fasteners for exterior application provided with metal-backed neoprene washers under heads of exposed fasteners bearing on weather side of panels.
4. Closures to be made from closed cell pre-molded neoprene or polyethylene form or metal and provided where indicated on drawings.
5. Sealants
 - a. Gunable sealant: Tremco bymoric sealant with #1 primer or sealant to meet TT-S-00230C.
 - b. Sealant tape: Tremco MBT-35 metal building tape or butyl tape to meet TT-C-1796-A.
 - c. Color: Custom color to match adjacent surface.

PART 3: EXECUTION

3.01 SECONDARY FRAMING

- A. Hat channels and/or zees to be installed in accordance with AISC Manual of Steel Construction "Code of Standard Practice."

3.02 STEEL SIDING INSTALLATION

- A. General: Comply with manufacturers' instructions and recommendations for installation, as applicable to project conditions and supporting substrates. Anchor panels and other components of the work securely in place, with provisions for thermal and structural movement.
1. Field cutting of exterior panels by torch is not permitted.
 2. Install panels with exposed exterior and interior fasteners, prefinished to match panel finishes.
- B. Accessories: Install components required for a complete roof or wall panel system, including trim, copings, fascias, gravel stops, mullions, sills, corner units, ridge closures, clips, seam covers, battens, flashings, gutters, louvers, sealants, gaskets, fillers, closure strips, and similar items.
- C. Joint Sealers: Install gaskets, joint fillers, and sealants where indicated and where required for weatherproof performance of panel systems.
- D. Wall Panels: Apply elastomeric sealant continuously between metal base channel (sill angle) and concrete and elsewhere as necessary for waterproofing. Handle and apply sealant and backup in accordance with the sealant manufacturer's recommendations.

1. Align bottom of wall panels and fasten panels with self-tapping screws. Fasten flashings and trim around openings and similar elements with self-tapping screws.
2. Install screw fasteners with power tools having controlled torque adjusted to compress neoprene washer tightly without damage to washer, screw threads, or panels. Install screws in predrilled holes.
3. Provide weatherproof escutcheons for pipe and conduit penetrating exterior walls.

3.05 INSTALLATION TOLERANCES

- A. Shim and align panel units within installed tolerance of 1/4 inch in 20'-0" on level/plumb/slope and location/line as indicated, and within 1/8-inch offset of adjoining faces and of alignment of matching profiles.

3.06 CLEANING AND PROTECTION

- A. Damaged Units: Replace panels and other components of the work that have been damaged or have deteriorated beyond successful repair by means of finish touch-up or similar minor repair procedures.
- B. Cleaning: Remove temporary protective coverings and strippable films (if any) as soon as each panel is installed. Upon completion of panel installation, clean finished surfaces as recommended by panel manufacturer, and maintain in a clean condition during construction.

END OF SECTION 07 46 00

OWNER - DEVELOPER
SCOTT COUNTY, IOWA
 400 WEST 4th STREET
 DAVENPORT, IOWA 52801

LEGAL DESCRIPTION
LOTS 1 AND 2
 BLACKHAWK HILLS 4th ADDITION
 TO THE CITY OF ELDRIDGE, IOWA

CURVE NUMBER	RADIUS	DELTA	ARC	CHORD	CHORD BEARING	TANGENT
1	70.50'	34°-52'-06"	42.90'	42.24'	N13°-44'-24"W.	22.14'

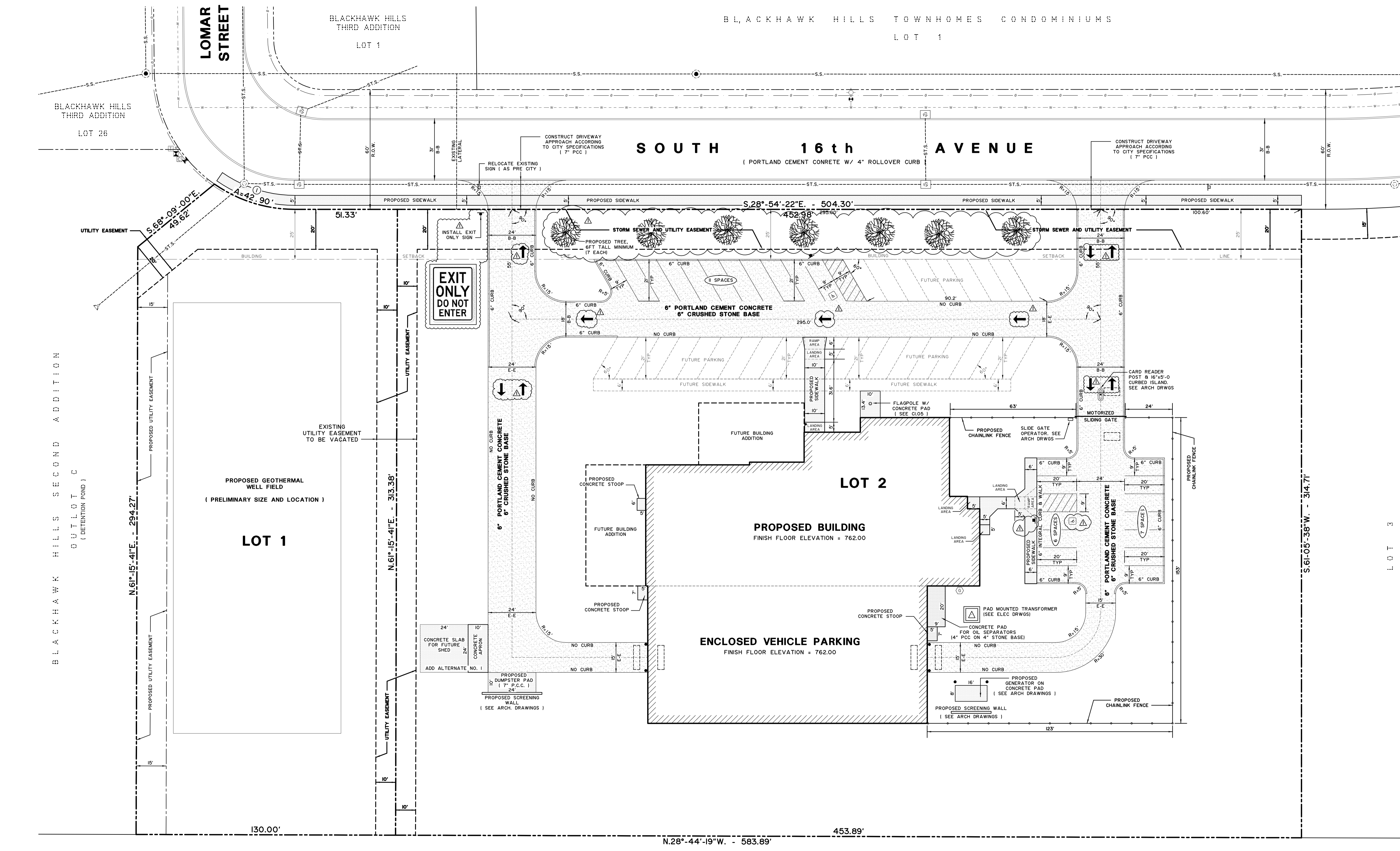
SITE PLAN
SHERIFF'S PATROL HEADQUARTERS
 ELDRIDGE, IOWA

Sheriff's Patrol
 Headquarters
 3206 South 16th Street
 Eldridge, Iowa, USA 52748

Scott County, Iowa
 600 West Fourth Street,
 Davenport, Iowa

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U.S. HIGHWAY 61

LEGEND

--- 770 ---	EXISTING CONTOUR (INDEX)	--- w ---	EXISTING WATERMAIN	←	PROPOSED TRAFFIC FLOW ARROWS
--- 77 ---	EXISTING CONTOUR (INTERMEDIATE)	⊕	EXISTING FIRE HYDRANT	⚠	PROPOSED EXIT SIGN
--- ST.S. ---	EXISTING STORM SEWER	⊕	EXISTING WATERMAIN VALVE	--- ST.S. ---	PROPOSED STORM SEWER
⊕	EXISTING CATCH BASIN	⊕	EXISTING TELEPHONE PEDESTAL	▭	PROPOSED PORTLAND CEMENT CONCRETE SIDEWALK
⊕	EXISTING STORM SEWER MANHOLE	⊕	EXISTING ELECTRIC BOX	▭	PROPOSED CHAINLINK FENCE (8' HIGH, BLACK VINYL COATED)
⊕	EXISTING FLARED END SECTION	⊕	EXISTING CABLE T.V. PEDESTAL	▭	PROPOSED BOLLARD
--- S.S. ---	EXISTING SANITARY SEWER	⊕	EXISTING GASMAIN	▭	PROPOSED ADA PARKING SIGN
⊕	EXISTING SANITARY SEWER MANHOLE	⊕	EXISTING GASMAIN VALVE	▭	PROPOSED AUTO-OPEN ACCUATOR (SEE ARCH. DRAWINGS)
		⊕	EXISTING DECIDUOUS TREE	▭	PROPOSED PORTLAND CEMENT CONCRETE DRIVEWAY/PARKING (6" THICK PAVING W/ 6" CRUSHED STONE BASE)

SITE INFORMATION

EXISTING ZONING	-	C-3 (GENERAL BUSINESS DISTRICT)
LOT 1 AREA	-	40,730 SQUARE FEET, 0.935 ACRES, ±
LOT 2 AREA	-	142,400 SQUARE FEET, 3.269 ACRES, ±
TOTAL LOTS 1 AND 2 AREAS	-	183,130 SQUARE FEET, 4.204 ACRES, ±
TOTAL BUILDING AREA	-	21,000 SQUARE FEET
TOTAL HARD SURFACE AREA	-	25,000 SQUARE FEET
TOTAL OPEN SPACE AREA	-	137,130 SQUARE FEET
ONSITE PARKING	-	24 SPACES (INCLUDES 2 ADA SPACES)
INDOOR PARKING	-	19 SPACES
TOTAL PARKING	-	43 SPACES
TOTAL REQUIRED PARKING	-	38 SPACES

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 VMCE 13293 - C1.03

Revisions

Description	Date	Num
ADDENDUM #	FEBRUARY 22, 2016	1

Comm: _____
 Date: 02/08/2016
 Drawn: SPK
 Check: JDM

SITE PLAN

Scale: 1" = 20'
C1.03

SITE PLAN DETAILS SHERIFF'S PATROL HEADQUARTERS ELDRIDGE, IOWA

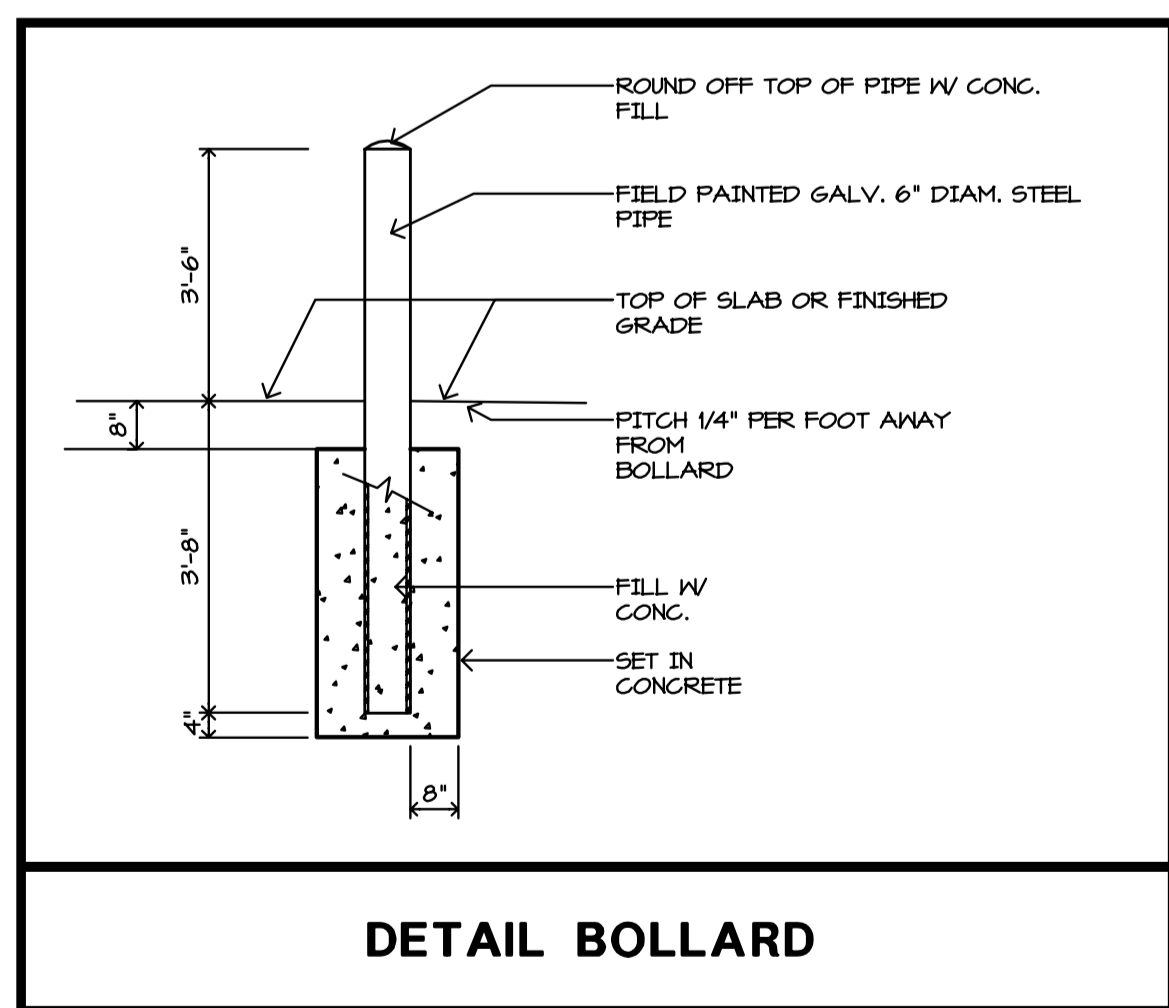
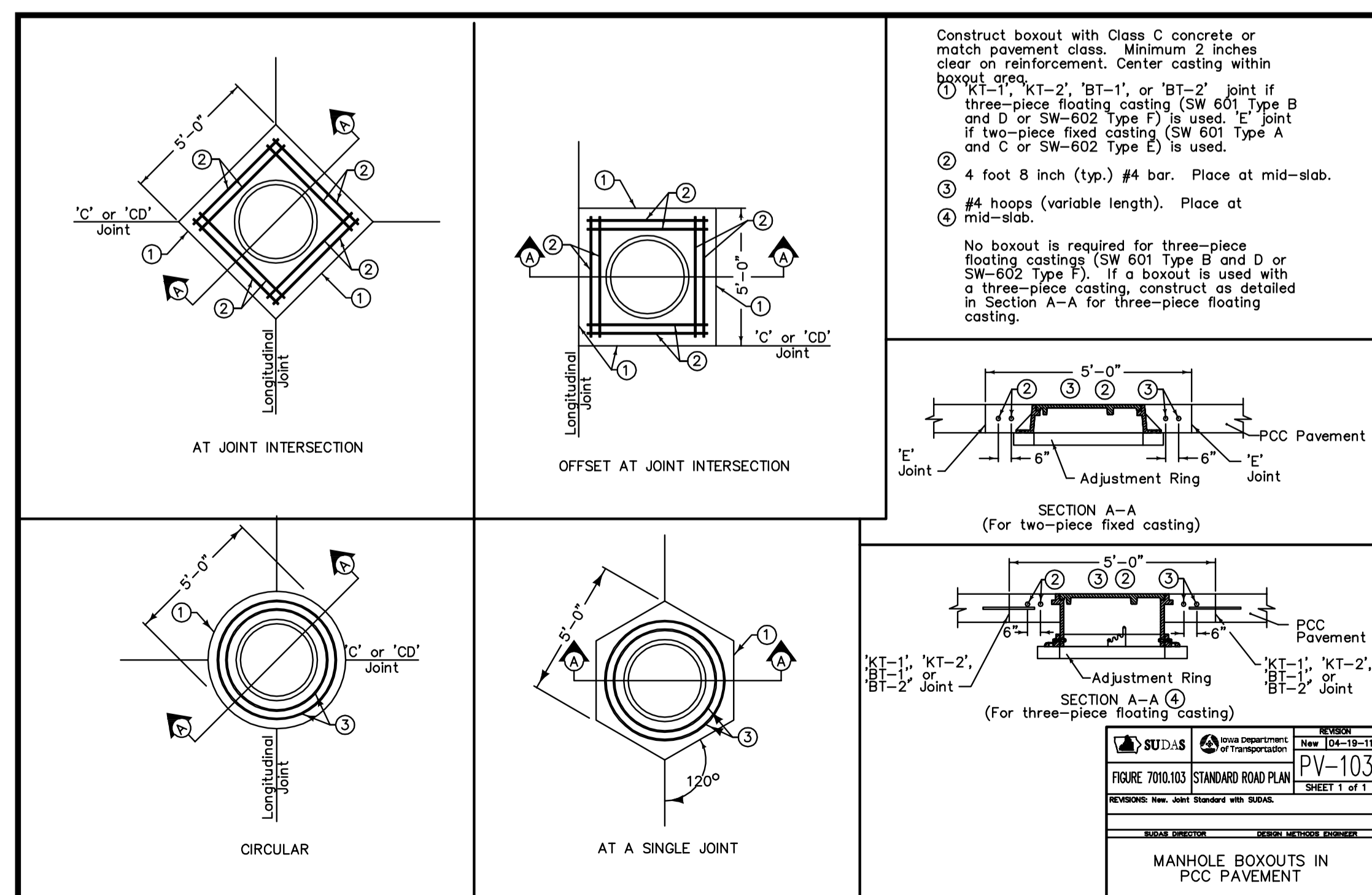
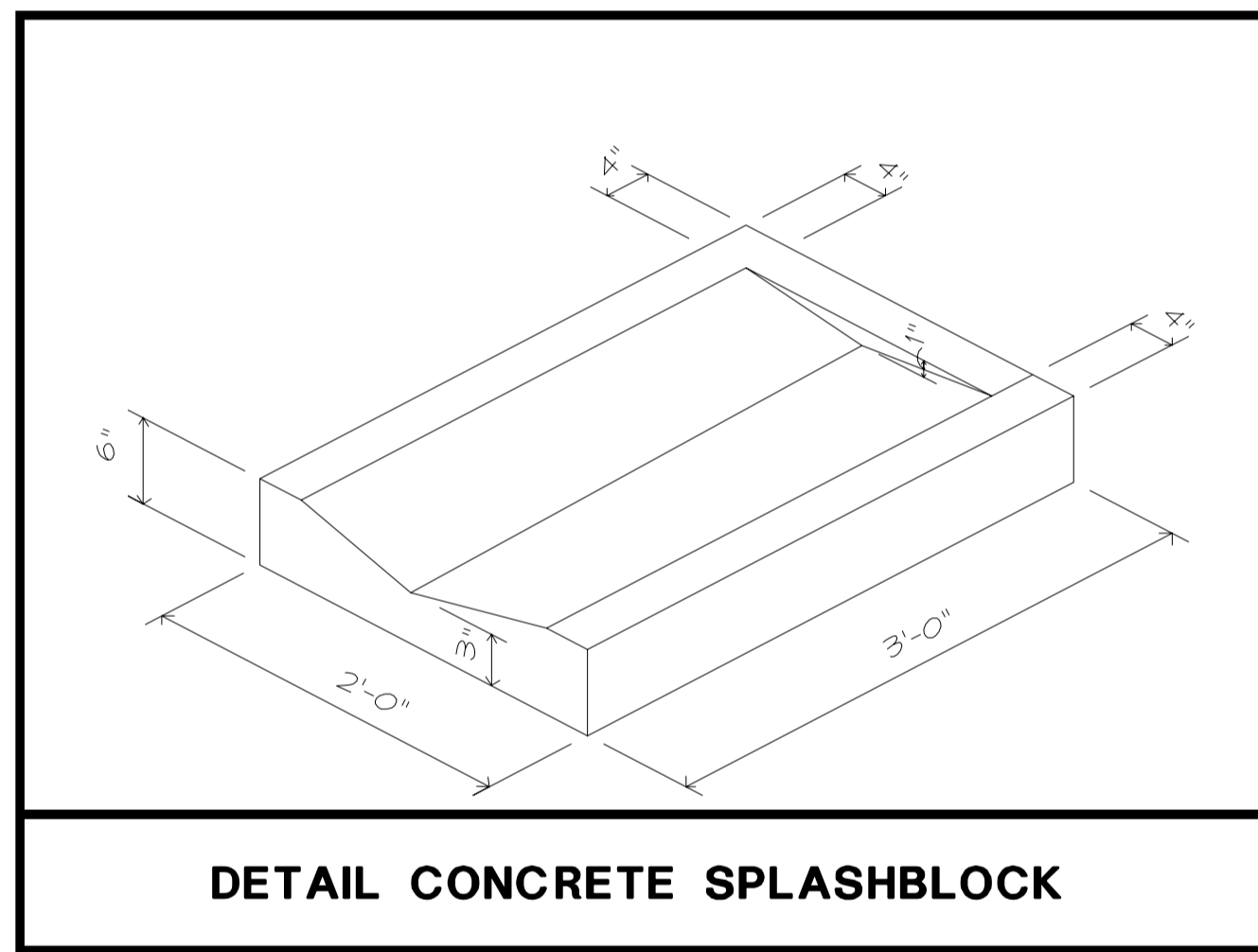
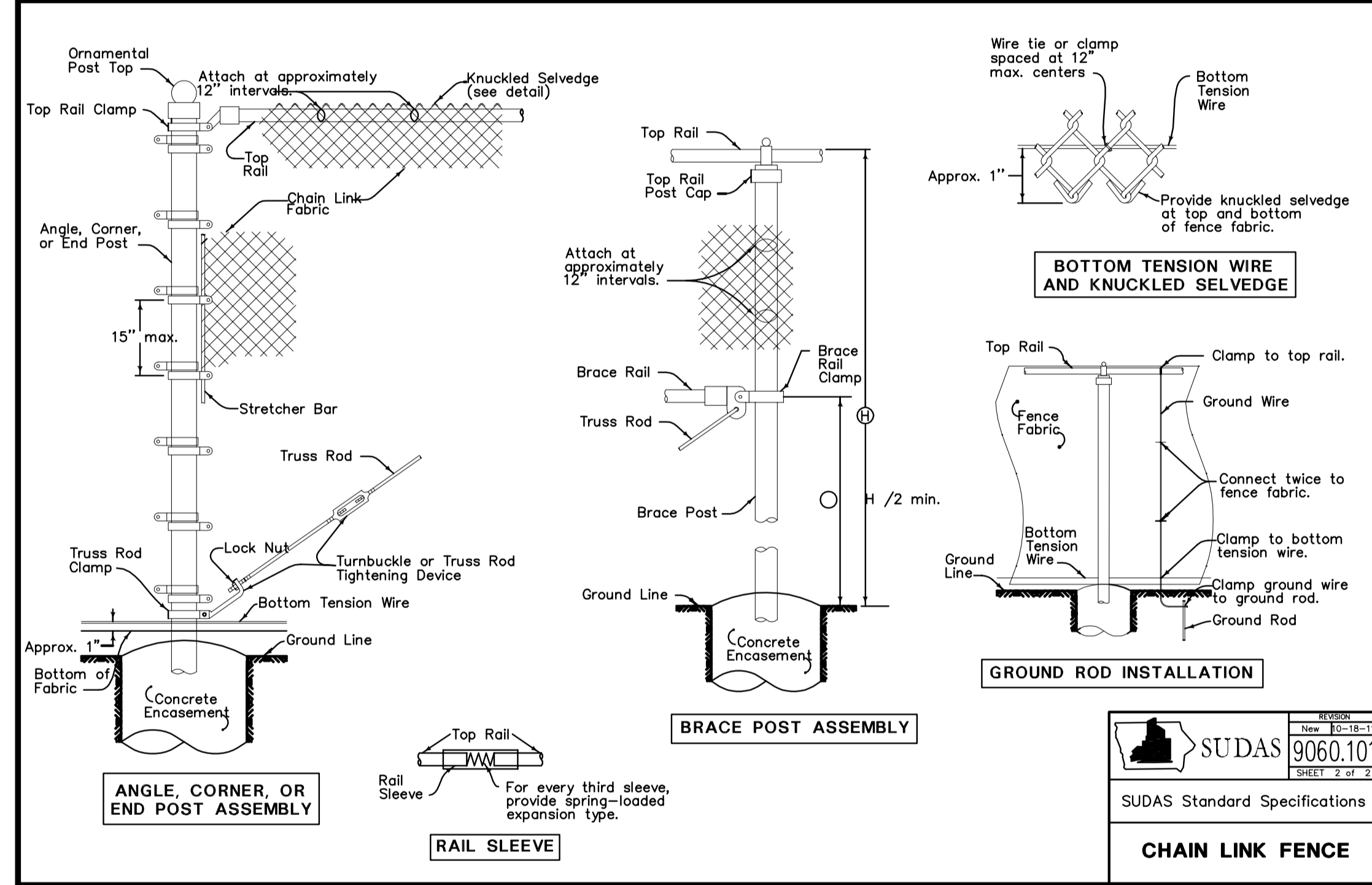
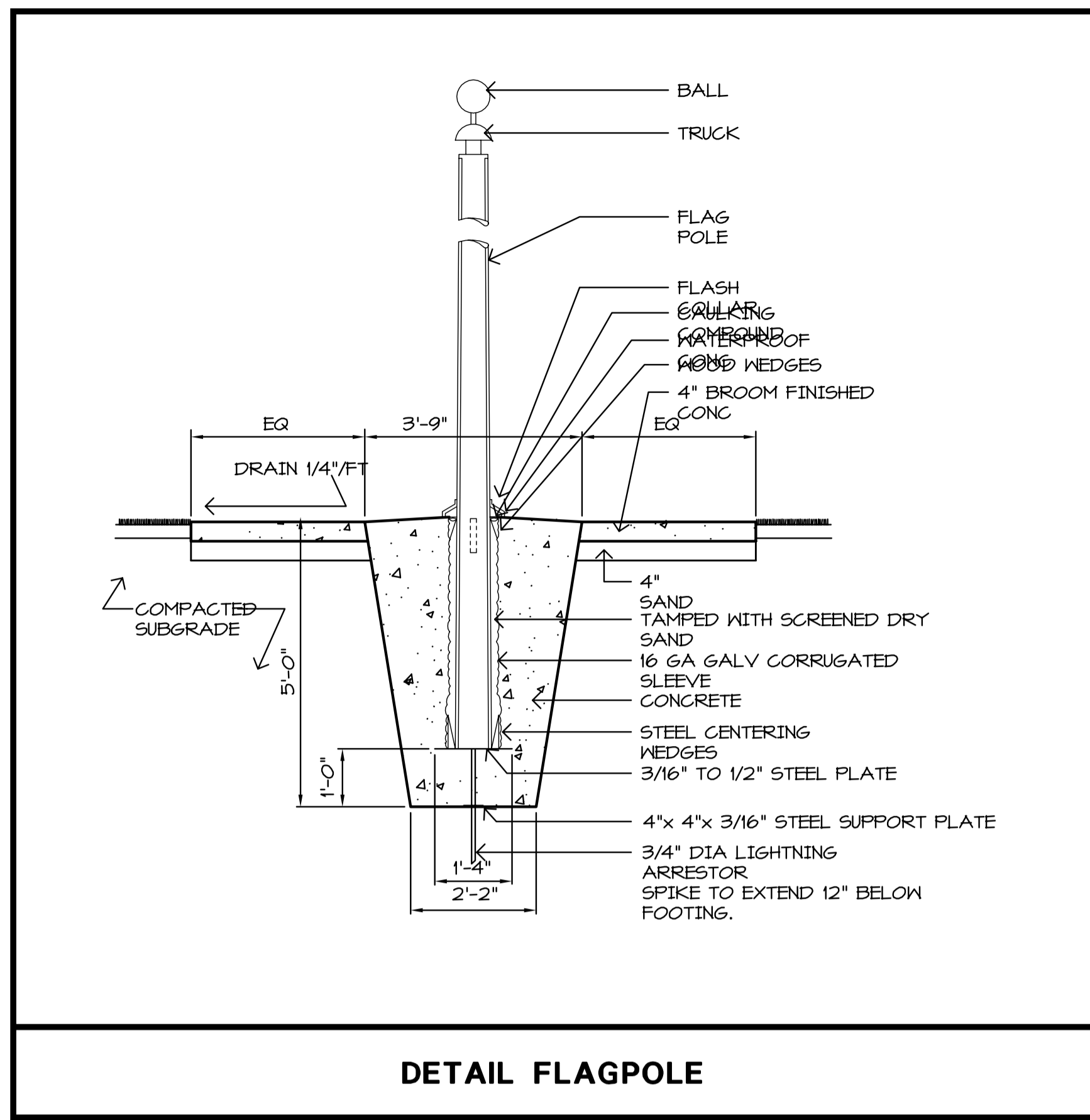
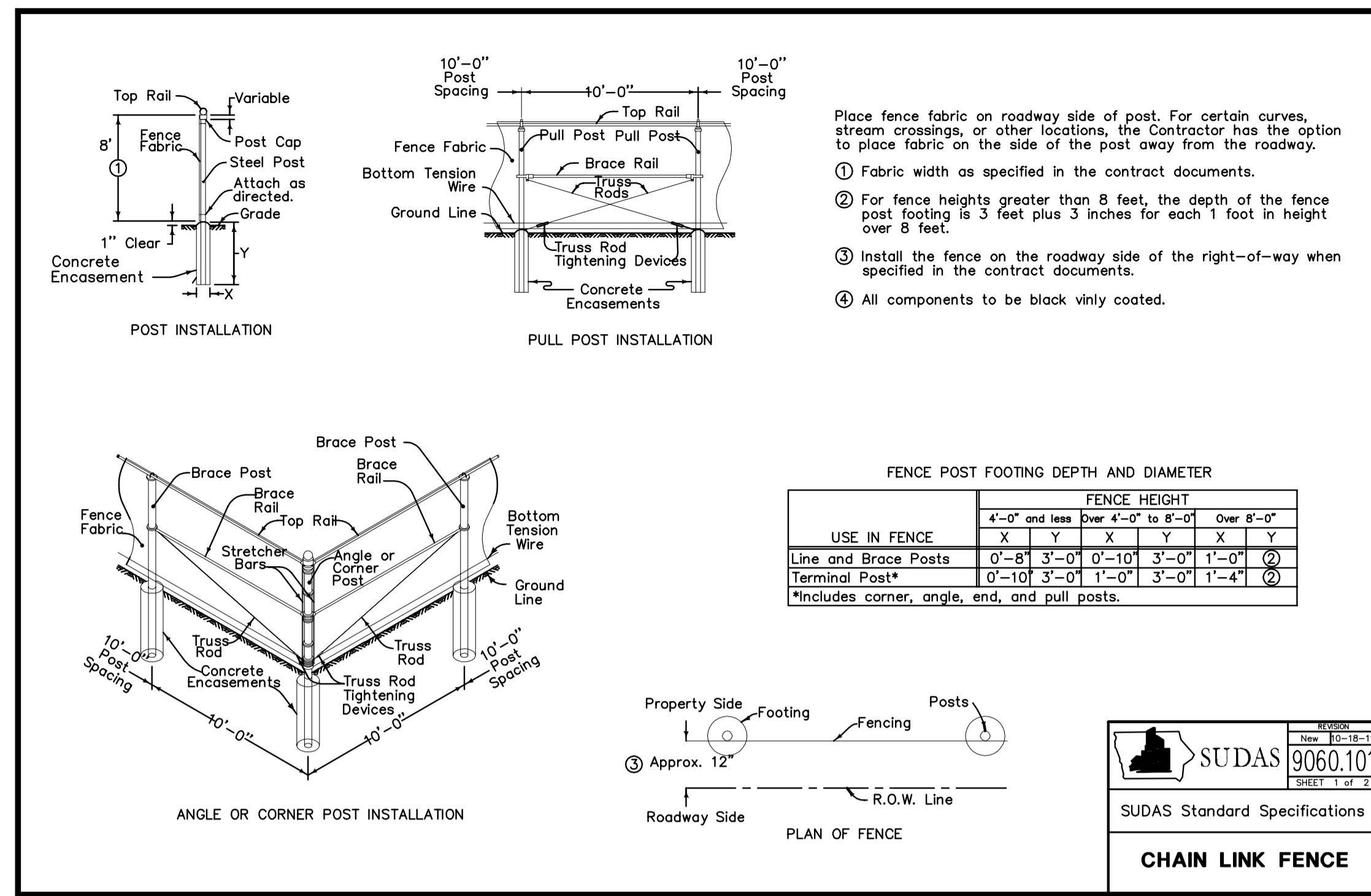
Sheriff's Patrol Headquarters

3206 South 16th Street
Eldridge, Iowa, USA 52748

Scott County, Iowa
600 West Fourth Street,
Davenport, Iowa

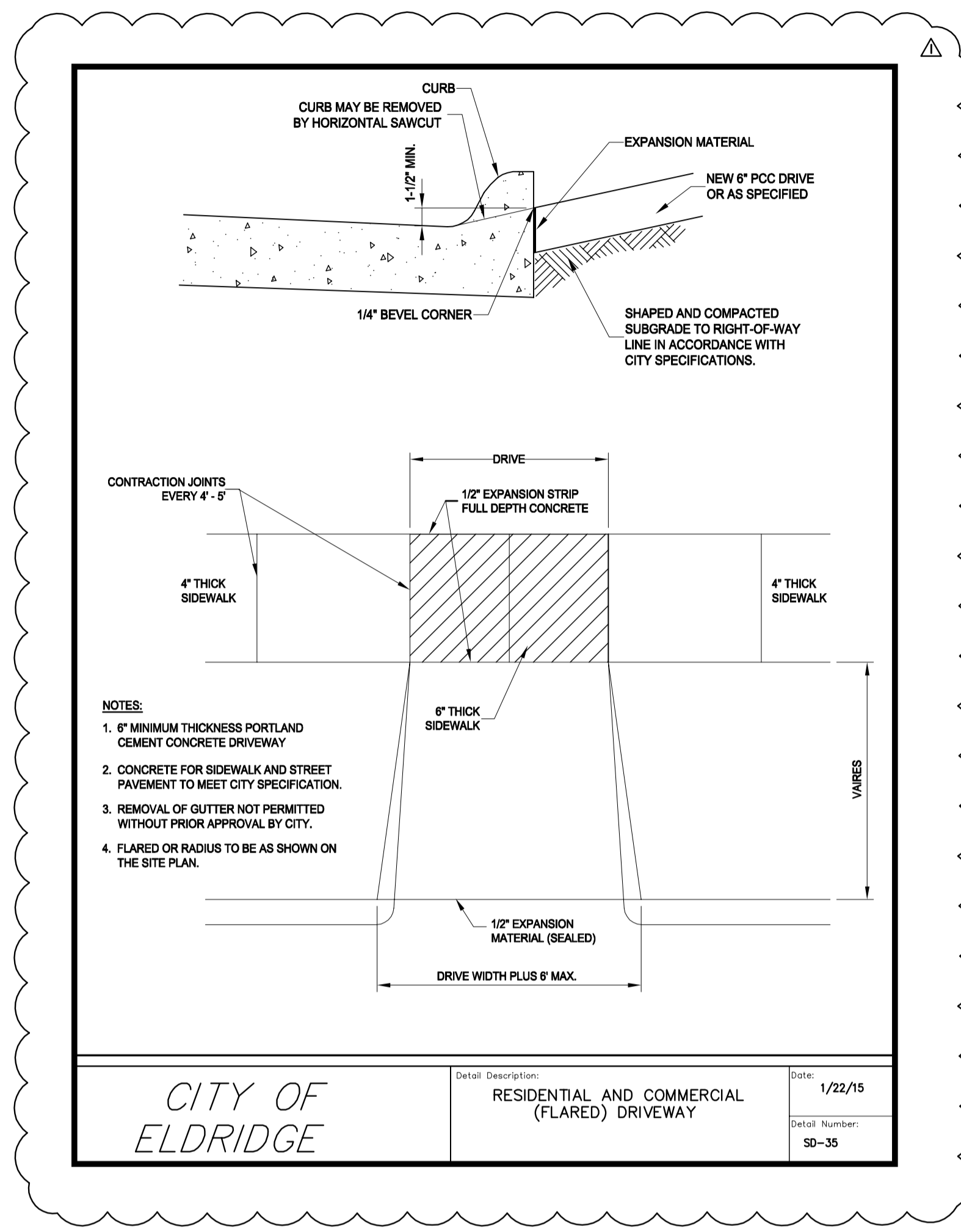
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VMCE 13293 - C1.05

Revisions			
Description	Date	Num	
ADDENDUM #	FEBRUARY 22, 2016		

Comm: _____
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Check: JDN

SITE PLAN DETAILS

Scale: 1" = 20'
C1.05

GRADING & EROSION CONTROL PLAN

SHERIFF'S PATROL HEADQUARTERS

ELDRIDGE, IOWA

Sheriff's Patrol Headquarters
 3206 South 16th Street
 Eldridge, Iowa, USA 52748

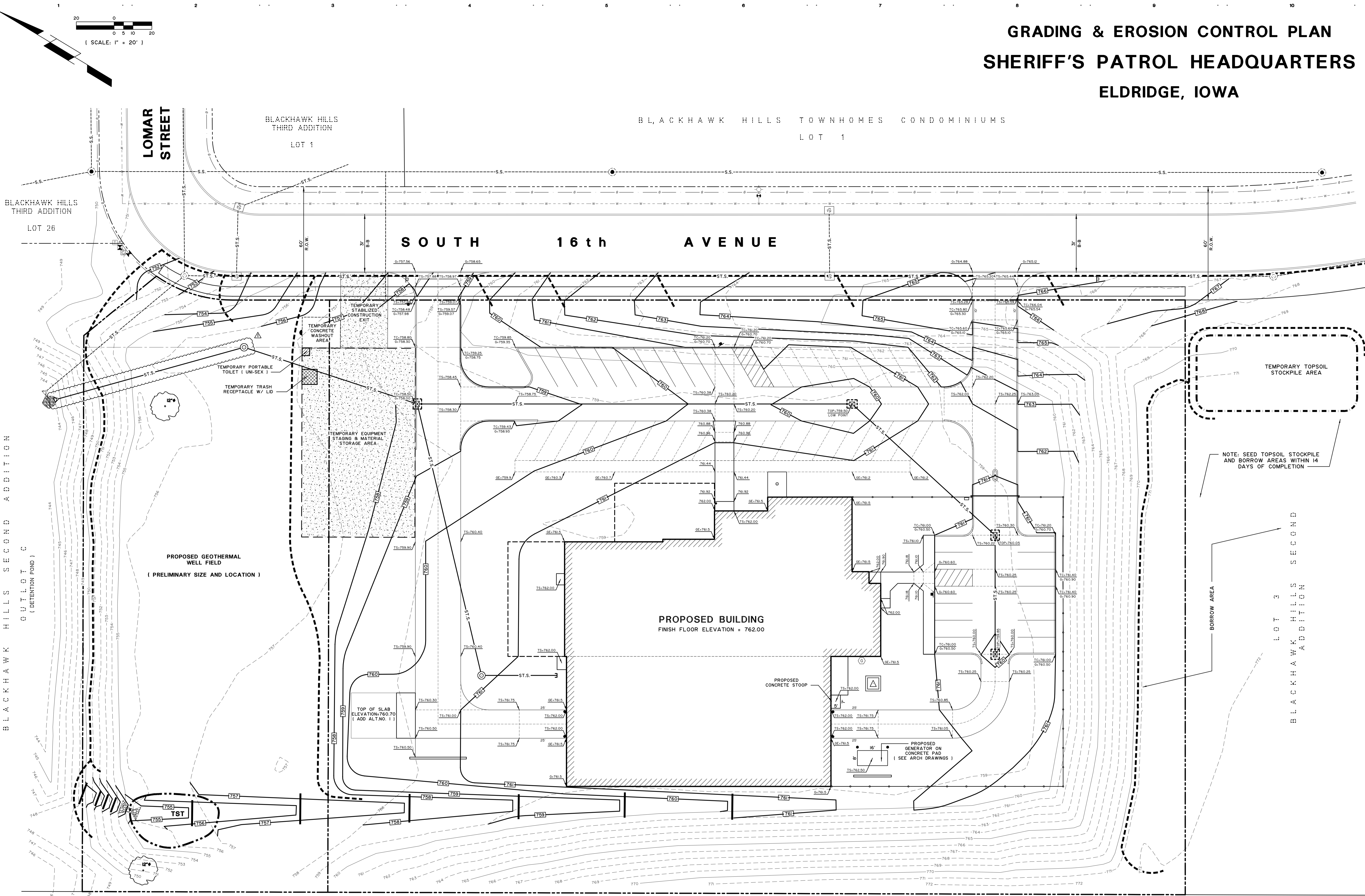
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IL

C

D

F

A

H

G

U.S. HIGHWAY 61

LEGEND

LEGEND

- | | | |
|---|---|---|
| <ul style="list-style-type: none"> — 770 — EXISTING CONTOUR (INDEX) — 771 — EXISTING CONTOUR (INTERMEDIATE) - - - ST.S. - - - EXISTING STORM SEWER ⊕ EXISTING CATCH BASIN ⊙ EXISTING STORM SEWER MANHOLE ⚡ EXISTING FLARED END SECTION - - - S.S. - - - EXISTING SANITARY SEWER MANHOLE ⊙ EXISTING SANITARY SEWER MANHOLE | <ul style="list-style-type: none"> - - - - - EXISTING WATERMAIN ⊕ EXISTING FIRE HYDRANT ⊕ EXISTING WATERMAIN VALVE ⊕ EXISTING TELEPHONE PEDESTAL ⊕ EXISTING ELECTRIC BOX ⊕ EXISTING CABLE T.V. PEDESTAL - - - - - EXISTING GASMAIN ⊕ EXISTING GASMAIN VALVE | <ul style="list-style-type: none"> - - - - - PROPOSED STORM SEWER ⊙ PROPOSED STORM SEWER MANHOLE ⊕ PROPOSED STORM SEWER CATCH BASIN ⊕ PROPOSED CHAINLINK FENCE (8' HIGH, BLACK VINYL COATED) - - - - - PROPOSED TEMPORARY SEDIMENT TRAP - - - - - PROPOSED 18" COMPOST FILTER SOCK OR SIMILAR DITCH CHECK - - - - - PROPOSED SILT FENCE ⊕ PROPOSED INLET PROTECTION - - - - - PROPOSED CONTOUR 760.00 PROPOSED SIDEWALK ELEVATION |
|---|---|---|

- ⊕ PROPOSED FLARED END SECTION W/ CURTAIN WALL
- ⊕ PROPOSED RIP-RAP
- ⊕ PROPOSED GROUND ELEVATION
- ⊕ PROPOSED TOP OF SLAB ELEVATION
- ⊕ PROPOSED TOP OF CURB ELEVATION
- ⊕ PROPOSED GUTTER ELEVATION
- ⊕ PROPOSED TEMPORARY CONSTRUCTION EXIT, EQUIPMENT STAGING & MATERIAL STORAGE

NOTE: SEED TOPSOIL STOCKPILE AND BORROW AREAS WITHIN 14 DAYS OF COMPLETION

BORROW AREA

BLACKHAWK HILLS SECOND ADDITION

Revisions		Date	Num
Description	ADDITION #	FEBRUARY 22, 2016	1

Comm: _____
 Date: 02/02/2016
 Drawn: SPK
 Check: JDX

GRADING AND EROSION CONTROL PLAN

PREPARED BY
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CONSULTING ENGINEERS, P.C.

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 PHONE NUMBER: (563) 359 - 1348

VMCE 13293 - C1.06

Scale: 1" = 20'

C1.06

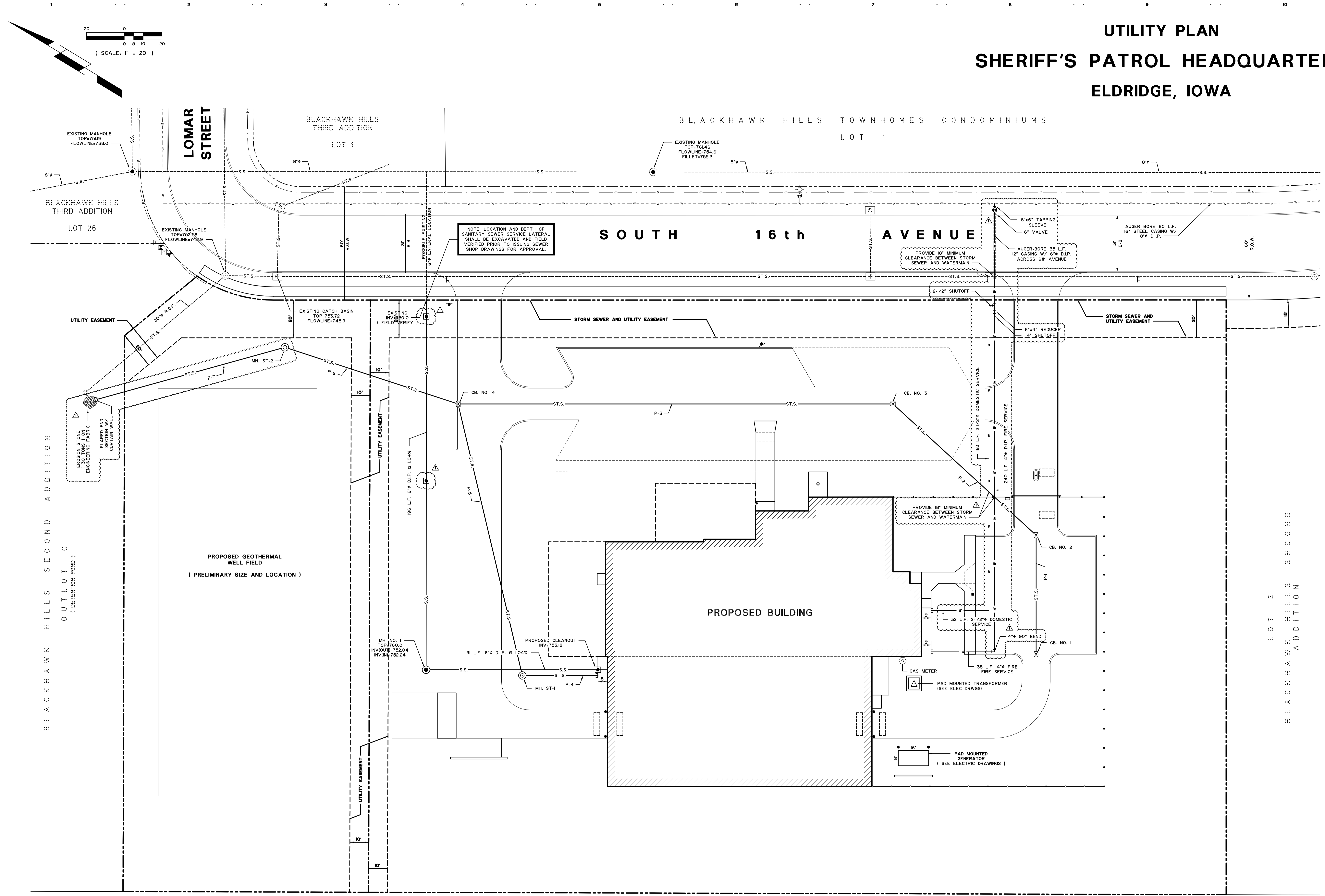
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Two Hundred Twenty | Fax: 567 241 6105
Palo Alto, IL 62467 | mai@woldae.com

UTILITY PLAN

SHERIFF'S PATROL HEADQUARTERS

ELDRIDGE, IOWA



U.S. HIGHWAY 61

PIPE INFORMATION					
PIPE NUMBER	PIPE SIZE	LENGTH	% SLOPE	UPPER ELEVATION	LOWER ELEVATION
P-1	12	63	1.00	757.35	756.72
P-2	12	103	1.00	756.62	755.59
P-3	18	230	1.00	755.09	752.79
P-4	10	40	2.00	756.56	755.56
P-5	12	148	1.40	755.36	753.29
P-6	18	96.5	1.20	752.59	751.43
P-7	18	104	5.10	749.30	744.00

STRUCTURE INFORMATION				
STRUCTURE	SIZE/TYPE	CENTERLINE STATION	TOP ELEVATION	INVERT
CB. NO. 1	SW-5II	-	759.85	757.35
CB. NO. 2	SW-5II	-	760.05	756.62
CB. NO. 3	SW-5II	-	759.50	755.09
CB. NO. 4	SW-5OI	-	TC-758.50	752.59
MH. ST-1	SW-4OI	-	RIM-760.9	755.36
MH. ST-2	SW-4OI	-	RIM-756.7	749.30

LEGEND

- 770 --- EXISTING CONTOUR (INDEX)
- 771 --- EXISTING CONTOUR (INTERMEDIATE)
- ST.S. --- EXISTING STORM SEWER
- ⊕ EXISTING CATCH BASIN
- ⊕ EXISTING STORM SEWER MANHOLE
- ⊕ EXISTING FLARED END SECTION
- S.S. --- EXISTING SANITARY SEWER MANHOLE
- ⊕ EXISTING SANITARY SEWER MANHOLE
- W --- EXISTING WATERMAIN
- ⊕ EXISTING FIRE HYDRANT
- ⊕ EXISTING WATERMAIN VALVE
- ⊕ EXISTING TELEPHONE PEDESTAL
- ⊕ EXISTING STORM SEWER PEDESTAL
- ⊕ EXISTING CABLE T.V. PEDESTAL
- G --- EXISTING GASMAIN
- ⊕ EXISTING GASMAIN VALVE
- ST.S. --- PROPOSED STORM SEWER
- ⊕ PROPOSED STORM SEWER MANHOLE
- ⊕ PROPOSED STORM SEWER CATCH BASIN
- CHAIN --- PROPOSED CHAINLINK FENCE (8' HIGH, BLACK VINYL COATED)
- PROPOSED BOLLARD
- W --- PROPOSED WATERMAIN SERVICE
- ⊕ PROPOSED AUTO-OPEN ACCUATOR (I SEE ELCTRIC DRAWINGS)
- S.S. --- PROPOSED SANITARY SEWER
- ⊕ PROPOSED SANITARY SEWER MANHOLE

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VMCE 13293 - C1.08

Revisions			
Description	Date	Num	
ADDENDUM #	FEBRUARY 22, 2016	1	

Comm: _____
Date: 02/08/2016
Drawn: SPK
Check: IDH

UTILITY PLAN

SITE UTILITY PLAN DETAILS & NOTES

SHERIFF'S PATROL HEADQUARTERS ELDRIDGE, IOWA

**Sheriff's Patrol
Headquarters**
3206 South 16th Street
Eldridge, Iowa, USA 52748

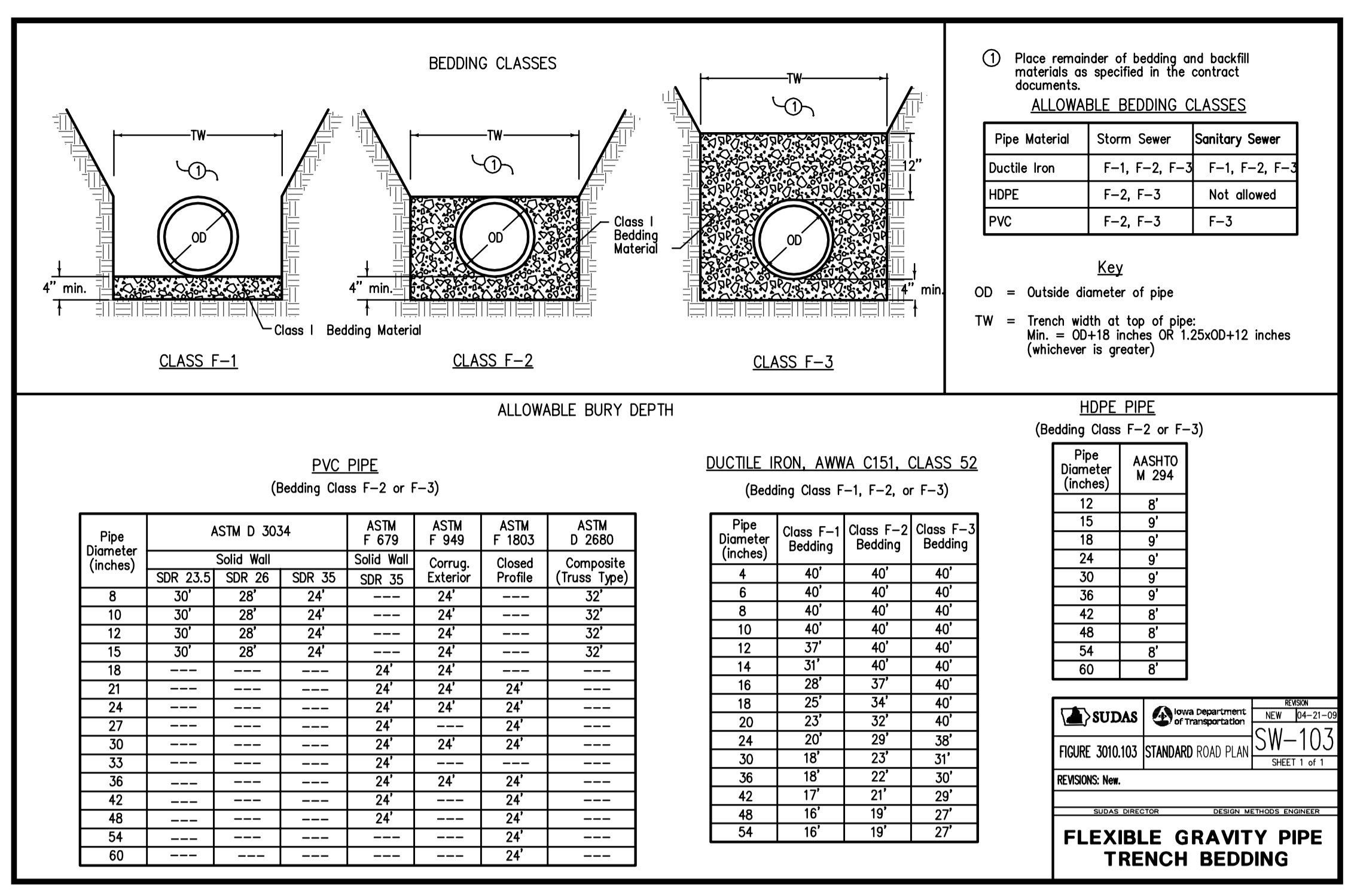
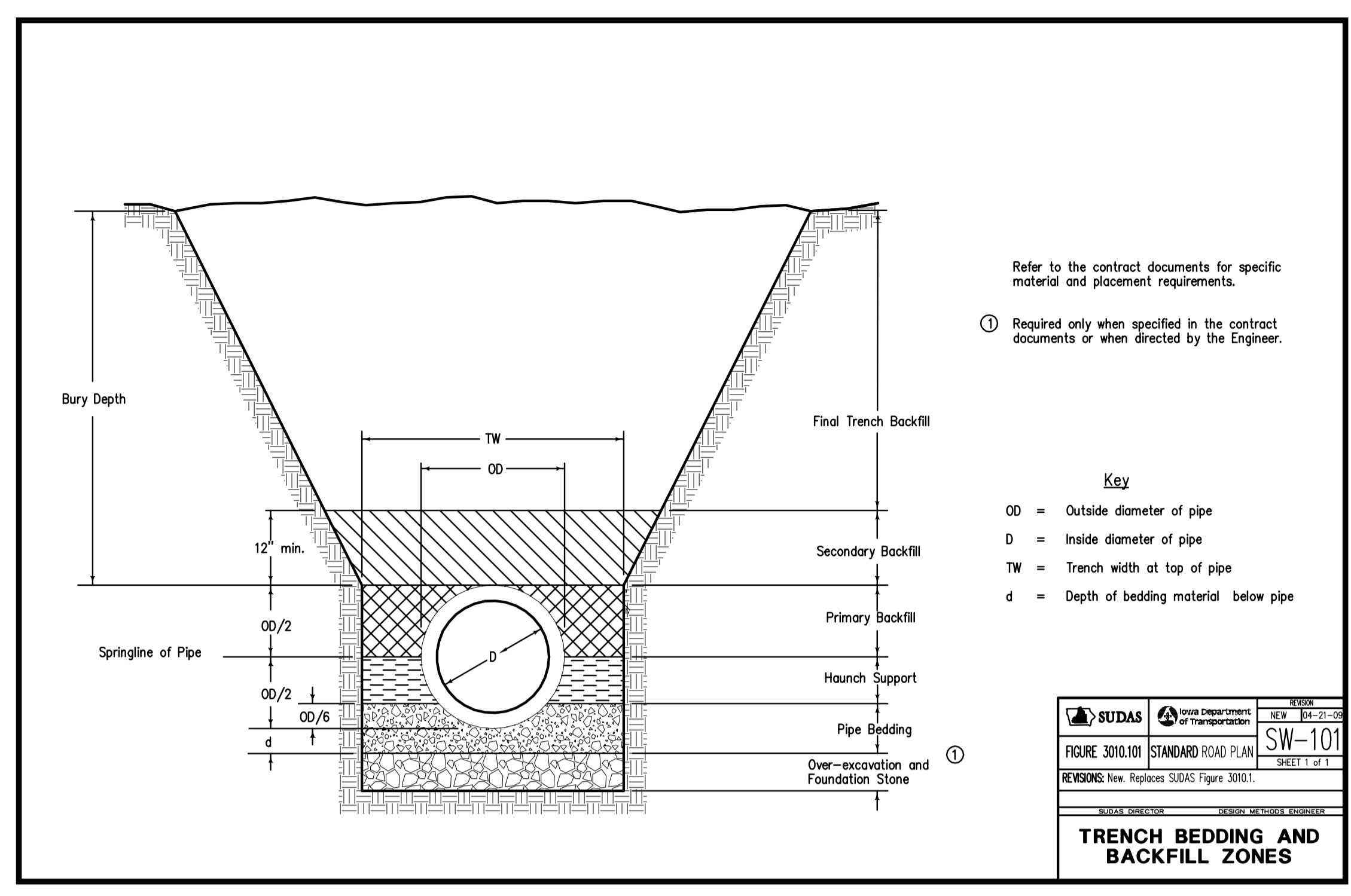
Scott County, Iowa
600 West Fourth Street,
Davenport, Iowa

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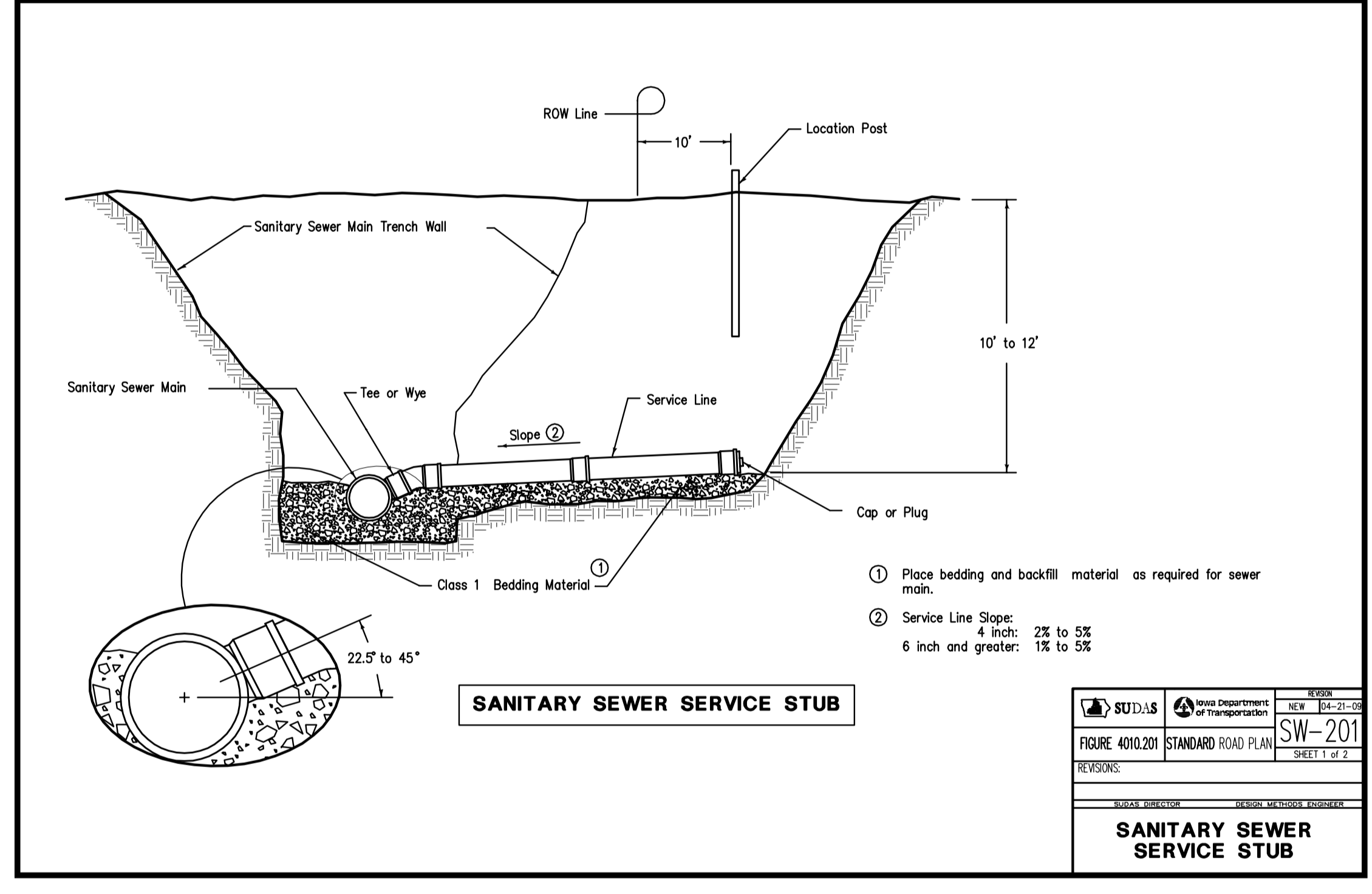
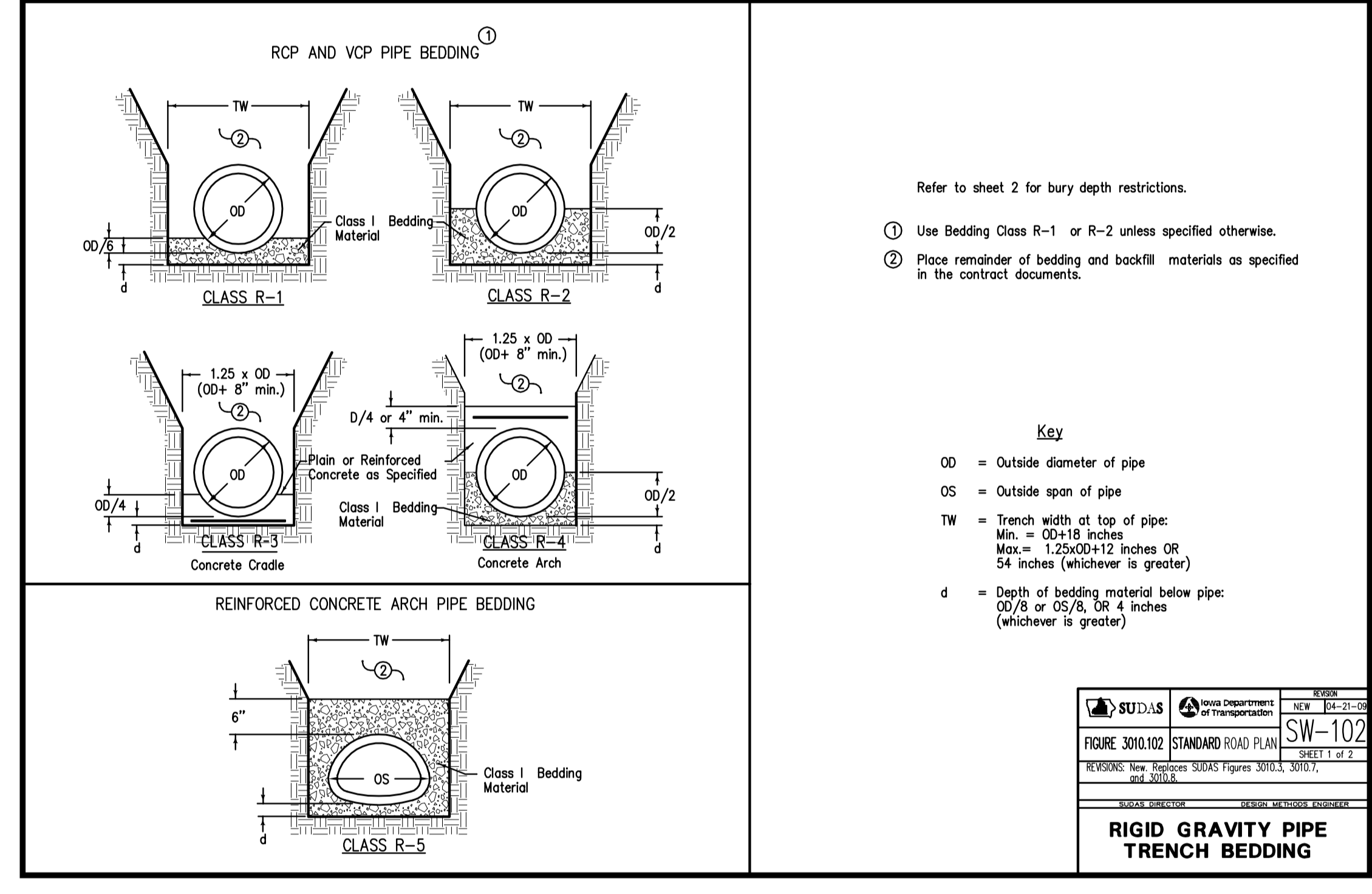
architects
engineers

www.woldae.com

110 North Broadway St. • Tel: 847 241 6100
Des Moines, IA 50319 • Fax: 847 241 6105
P.O. Box 699 • Email: wold@woldae.com



- ### SITE UTILITY NOTES
- GENERAL**
- ALL IMPROVEMENTS SHALL BE INSTALLED IN ACCORDANCE WITH THE LATEST STANDARD SPECIFICATIONS, LOCAL CODES, ORDINANCES AND DETAILS OF THE CITY OF ELDRIDGE, IOWA ALONG WITH ALL SPECIFICATIONS ADOPTED BY ALL LOCAL UTILITY COMPANIES.
 - ALL EXISTING UTILITIES SHOWN WERE LOCATED PARTIALLY IN THE FIELD AND PARTIALLY FROM REVIEW OF EXISTING PUBLIC RECORDS. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE FOR THE FIELD LOCATION OF ALL EXISTING UNDERGROUND LINES PRIOR TO BEGINNING ANY CONSTRUCTION IN THE AREA. ANY DAMAGE DONE TO UTILITIES WILL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE.
 - THE CONTRACTOR AND SUBCONTRACTORS SHALL EXERCISE PROPER CAUTION TO PROTECT THE EXISTING AND PREVIOUSLY INSTALLED IMPROVEMENTS. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ANY DAMAGE.
 - ALL UTILITY TRENCHES SHALL BE BACKFILLED IN ACCORDANCE WITH THE PIPE EMBEDMENT DETAILS.
 - THE UTILITY CONTRACTOR(S) SHALL RESTORE THE GRADES TO THE PRIOR ELEVATIONS LEFT BY THE SITE GRADING OPERATIONS. TRENCHES SHALL BE COMPACTED ACCORDING TO THE PIPE EMBEDMENT DETAILS. ANY AREAS NEEDED TO BE REFILLED SHALL BE DONE USING ACCEPTABLE MATERIAL WITH THE REQUIRED DEGREE OF COMPACTION ACHIEVED. ANY AREAS THAT HAD A STAND OF VEGETATION ESTABLISHED FROM TEMPORARY SEEDING AND ARE NOT EXPECTED TO BE DISTURBED BY OTHER CONSTRUCTION FOR 31 DAYS SHALL BE RE-SEEDING AND MAINTAINED TO RE-ESTABLISH GROWTH. COSTS FOR RESTORATION SHALL BE INCLUDED IN THE INITIAL BID. IF THESE REQUIREMENTS ARE NOT COMPLETED TO THE SATISFACTION OF THE ENGINEER, THEN SEEDING SHALL BE DONE AND CHARGED TO THE CONTRACTOR.
 - ANY EROSION CONTROL MEASURES SUCH AS SILT FENCE, PROTECTION BERMS, DITCHES, ETC. THAT WERE IN PLACE AND DAMAGED OR REMOVED BY UTILITY OPERATIONS SHALL BE REPAIRED OR REPLACED TO THEIR PRIOR CONDITION. THIS SHALL BE DONE AT A COST TO THE UTILITY CONTRACTOR.
- SANITARY SEWER**
- SANITARY SEWER MAIN PIPE SHALL BE **(AS CALLED OUT ON THE PLANS)** CONFORM TO THE LATEST EDITION OF THE UNIFORM PLUMBING CODE.
 - SANITARY MANHOLES SHALL BE PRECAST CONCRETE WITH EXTERNAL, WATERTIGHT, RUBBER CHIMNEY SEALS. ALL SANITARY SEWER PIPE TO MANHOLE CONNECTIONS SHALL HAVE FLEXIBLE, WATERTIGHT GASKETS PER ASTM C 925 CAST INTEGRALLY WITH THE RISER SECTION. DROP CONNECTIONS SHALL BE PROVIDED WHERE REQUIRED ON THE PLANS. GROUT THE INTERNAL JOINT SPACE WITH NON-SHINKING GROUT.
 - SANITARY SEWER WYES ARE LOCATED BY DIMENSION FROM THE NEAREST DOWNSTREAM MANHOLE. THE LATERALS SHALL BE MADE OF THE SAME MATERIAL AS THE MAIN, AND SHALL EXTEND TO WITHIN 5 FEET OF THE BUILDING. THE END OF EACH LATERAL SHALL BE MARKED WITH A 2"x4" WOODEN MARKER WHICH SHALL EXTEND A MINIMUM OF 2 FEET ABOVE THE ADJACENT GROUND ONCE BACKFILLED.
 - FOR CONNECTION TO AN EXISTING MANHOLE, CORE-DRILL THE OPENING AND USE A RUBBER LINK-SEAL TO MAKE A WATER-TIGHT PIPE CONNECTION.
 - CASING PIPE, IF NEEDED, SHALL BE NEW, STEEL PIPE MEETING THE REQUIREMENTS OF ASTM A 139, GRADE B, ASTM A252, GRADE 2; OR ASTM A 53, GRADE B. PIPE MAY BE WELDED OR SEAMLESS. WALL THICKNESS WILL BE 0.275 INCHES, COMPLY WITH AMERICAN WELDING SOCIETY CODE D1.1. WELD ALL JOINTS WITH FULL PENETRATING WELD.
- STORM SEWER**
- STORM SEWER PIPE UNDER PAVED AREAS SHALL BE REINFORCED CONCRETE PIPE ASTM C-76 CLASS III JOINTS SHALL CONFORM TO ASTM C-443 GASKETED. STORM SEWER NOT UNDER PAVEMENT MAY BE HOPE OR HOPE DRAINAGE PIPE OR EQUAL CONFORMING TO ASTM F2708 AND ASTM A892 WITH INTEGRAL BELL. WATERTIGHT GASKETED JOINTS CONFORMING TO ASTM D3212. OTHER MATERIALS SHALL HAVE PRIOR APPROVAL FROM THE ENGINEER AND SHALL COMPLY WITH LOCAL CODES.
- OTHER NOTES**
- THIS PROJECT HAS NO UNDERGROUND DOWNSPOUT COLLECTION SYSTEM.
- WATER MAIN AND SERVICES**
- ALL WATER SERVICES SHALL BE AS SHOWN ON THE PLANS AND SHALL HAVE A MINIMUM OF 5 FEET OF COVER.
- ELECTRICAL**
- THE ELECTRICAL CONTRACTOR SHALL INSTALL (2) RUNS OF 4" DIAMETER PVC CONDUIT (SCHEDULE 40) COMPLETE WITH PULL WIRES AND NECESSARY APPURTENANCES TO ALLOW THE ELECTRIC COMPANY TO INSTALL PRIMARY SERVICE TO THE TRANSFORMER.
 - THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONSTRUCTION OF THE CONCRETE TRANSFORMER PAD. THE ELECTRIC COMPANY SHALL PROVIDE AND INSTALL THE TRANSFORMER.
 - SEE THE SITE LIGHTING PLAN FOR ONSITE PARKING LOT LIGHTING REQUIREMENTS.
 - ALL MATERIALS SHALL BE UL APPROVED.
- TELEPHONE**
- THE ELECTRICAL CONTRACTOR SHALL INSTALL ONE RUN OF 4" DIAMETER PVC CONDUIT (SCHEDULE 40) COMPLETE WITH PULL STRING AND NECESSARY APPURTENANCES TO ALLOW THE TELEPHONE COMPANY TO INSTALL SERVICE TO THE BUILDING.
 - INSIDE THE BUILDING, THE CONTRACTOR SHALL PROVIDE A 4'x4' SHEET OF 3" PLYWOOD MOUNTED AT 36" ABOVE FINISH FLOOR WITH A 120 VOLT OUTLET IN THE GENERAL PROXIMITY OF THE BOARD, ALSO PROVIDE A COVERED #6 GROUND WIRE TO THE MULTI-GROUNDED NEUTRAL OF THE ELECTRIC SERVICE PANEL.
- GAS, CABLE TV, FIBEROPTICS**
- GAS, CABLE TV AND FIBEROPTIC SERVICES SHALL BE INSTALLED BY THE LOCAL UTILITY COMPANIES.



ALLOWABLE BURY DEPTH

Pipe Diameter (inches)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding No Steel	AS=0.4%	AS=1.0%
12	7	10	15	19	27
15	8	10	16	19	27
18	8	11	16	20	40
21	8	11	16	26	40
24	8	12	23	36	40
27	10	15	30	40	40
30	11	15	28	40	40
33	11	15	28	40	40
36	11	15	27	40	40
42	11	15	28	39	40
48	11	15	28	35	40
54	11	15	22	34	40
60	11	15	22	33	40
66	11	15	24	32	40
72	11	15	24	32	40

As = Area of Steel Reinforcing

Pipe Diameter (inches)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding No Steel	AS=0.4%	AS=1.0%
12	12	15	23	29	40
15	12	15	23	30	40
18	13	16	28	40	40
21	13	18	40	40	40
24	16	23	40	40	40
27	19	30	40	40	40
30	19	29	40	40	40
33	19	28	40	40	40
36	19	28	40	40	40
42	18	27	40	40	40
48	18	28	40	40	40
54	18	25	40	40	40
60	18	25	40	40	40
66	18	25	40	40	40
72	18	24	40	40	40

As = Area of Steel Reinforcing

Pipe Diameter (inches)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding No Steel	AS=0.4%	AS=1.0%
12	15	23	35	40	40
15	19	24	40	40	40
18	19	30	40	40	40
21	25	40	40	40	40
24	34	40	40	40	40
27	40	40	40	40	40
30	40	40	40	40	40
33	40	40	40	40	40
36	40	40	40	40	40
42	37	40	40	40	40
48	35	40	40	40	40
54	33	40	40	40	40
60	32	40	40	40	40
66	31	40	40	40	40
72	31	40	40	40	40

As = Area of Steel Reinforcing

EXTRA STRENGTH VCP

Pipe Diameter (inches)	Class R-1 Bedding	Class R-2 Bedding	Class R-3 & R-4 Bedding No Steel	AS=0.4%	AS=1.0%
6	25	30	30	30	30
8	25	30	30	30	30
10	18	20	30	30	30
12	16	20	30	30	30
15	15	19	28	30	30
18	14	18	30	30	30
21	15	22	30	30	30
24	18	28	30	30	30
27	20	30	30	30	30
30	19	28	30	30	30
33	20	30	30	30	30
36	20	30	30	30	30
39	19	29	30	30	30
42	18	26	30	30	30

As = Area of Steel Reinforcing

REINFORCED CONCRETE ARCH PIPE

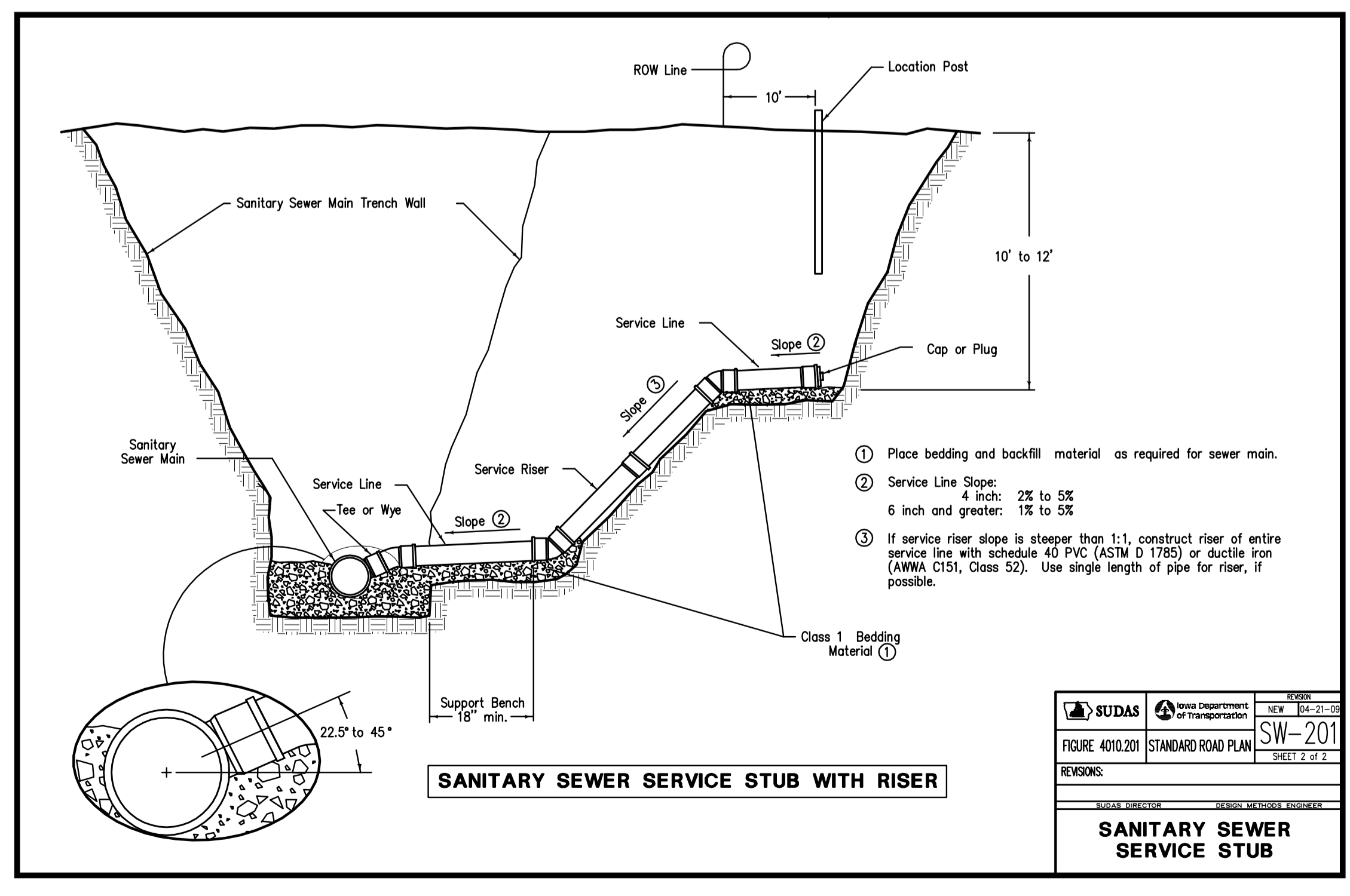
Pipe Size (inch by inch)	Class A-III	Class A-IV
18 by 11	15	6"
22 by 13	16	6"
26 by 15	21	8"
29 by 18	24	7"
36 by 22	30	8"
44 by 27	36	8"
51 by 31	42	8"
58 by 36	48	8"
65 by 40	54	8"
73 by 45	60	8"
88 by 54	72	9"
96 by 60	81	14"

Based on Class R-5 bedding.

SUDAS State of Iowa Department of Transportation NEW REV. 10-2012

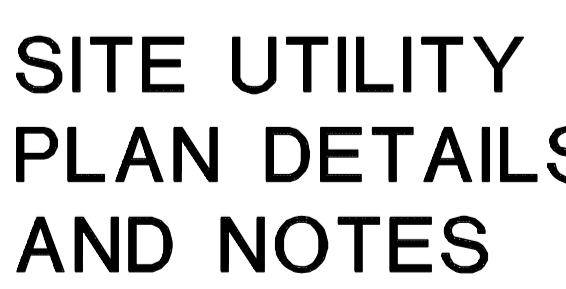
FIGURE 300.102 STANDARD ROAD PLAN **SW-102** SHEET 3 OF 2

REVISIONS: New, Supersedes SUDAS Figures 300.1, 300.1



Description	Revisions	Date	Num.
ADDENDUM #		FEBRUARY 22, 2016	1

Comm: 02/08/2016
 Drawn: SPK
 Check: JDA



SITE UTILITY PLAN DETAILS AND NOTES

Scale: 1" = 20'
C1.09

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 VMCE 13293 - C1.09

UTILITY PLAN DETAILS II

SHERIFF'S PATROL HEADQUARTERS

ELDRIDGE, IOWA

Sheriff's Patrol Headquarters

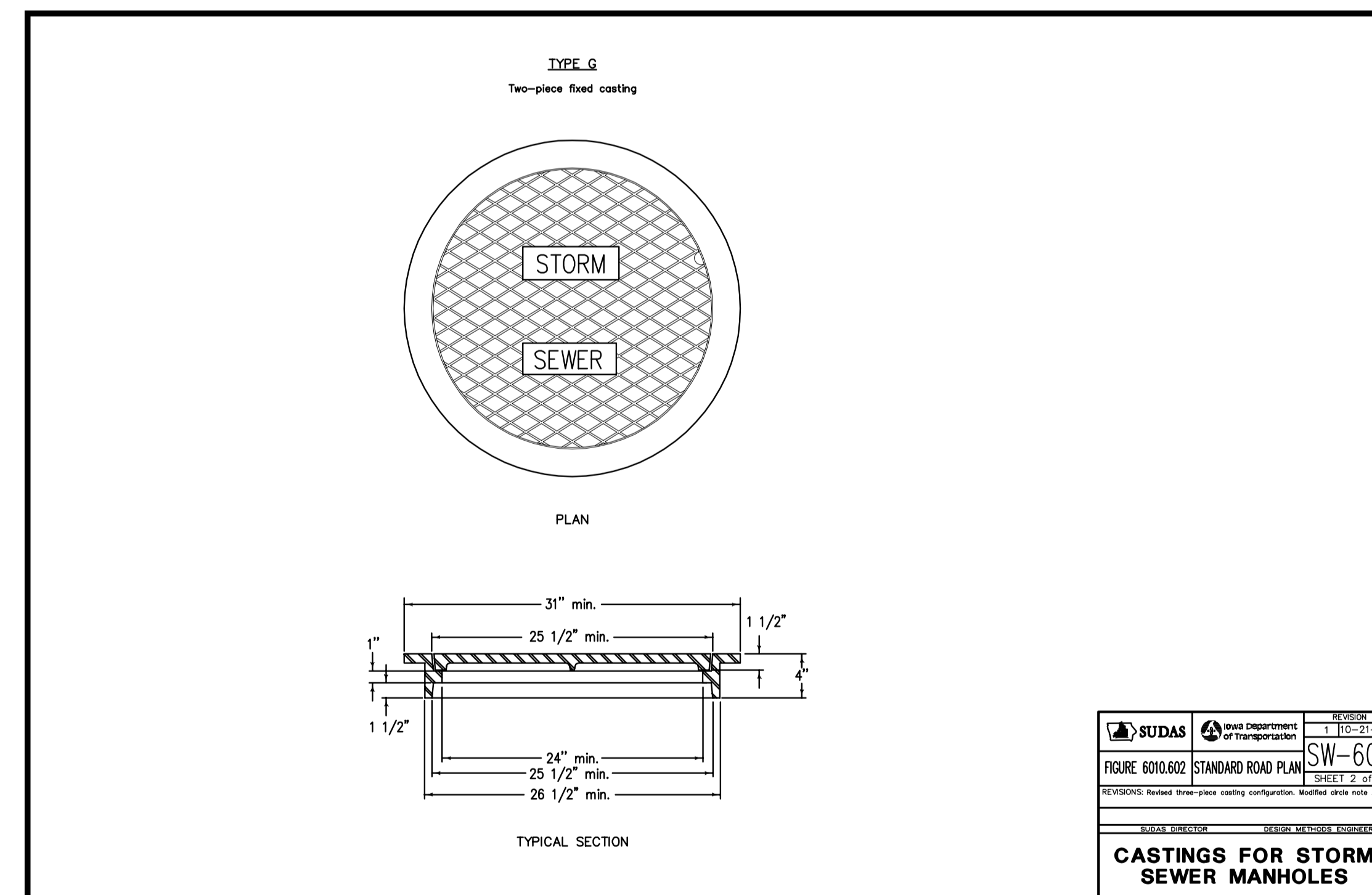
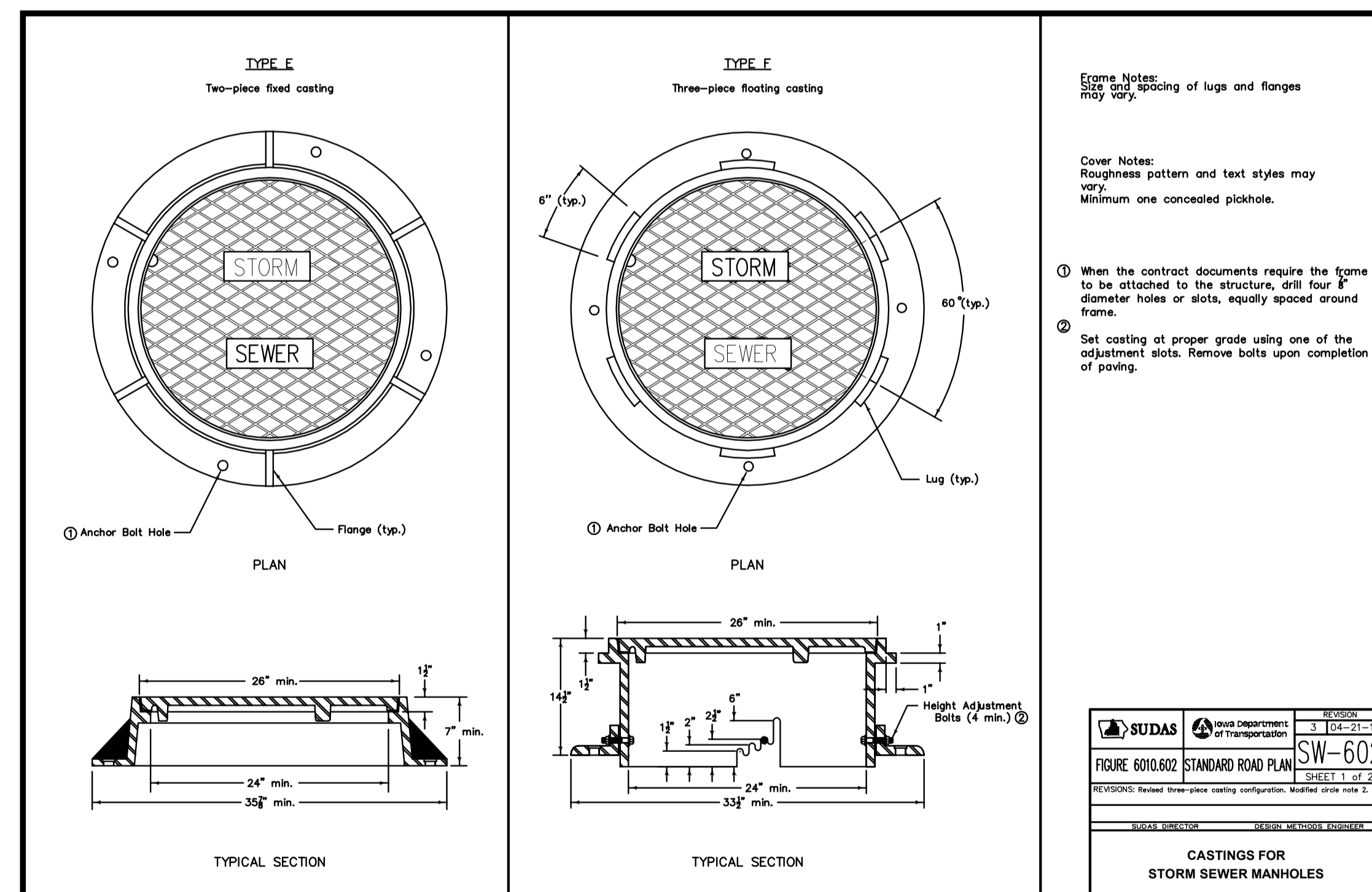
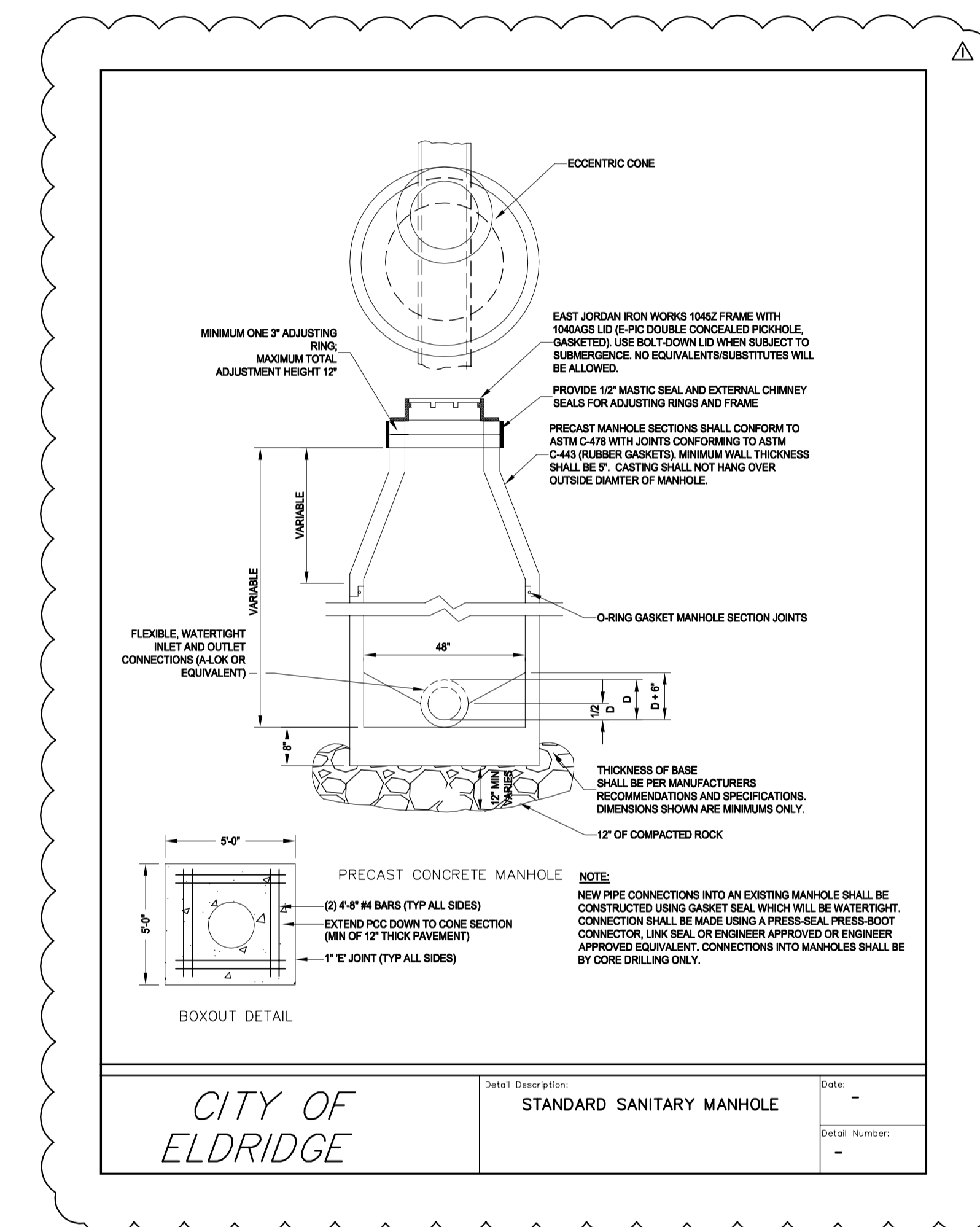
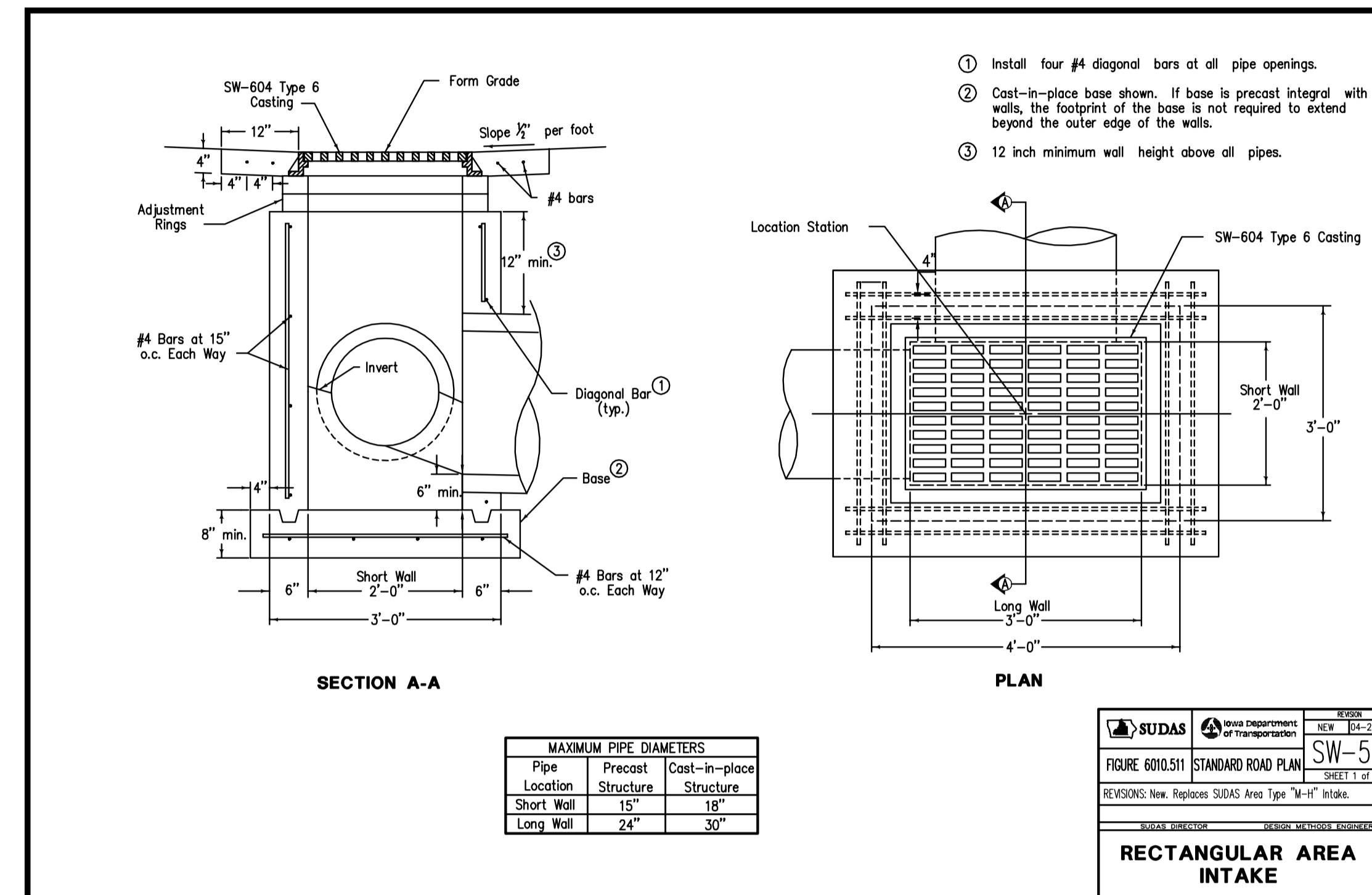
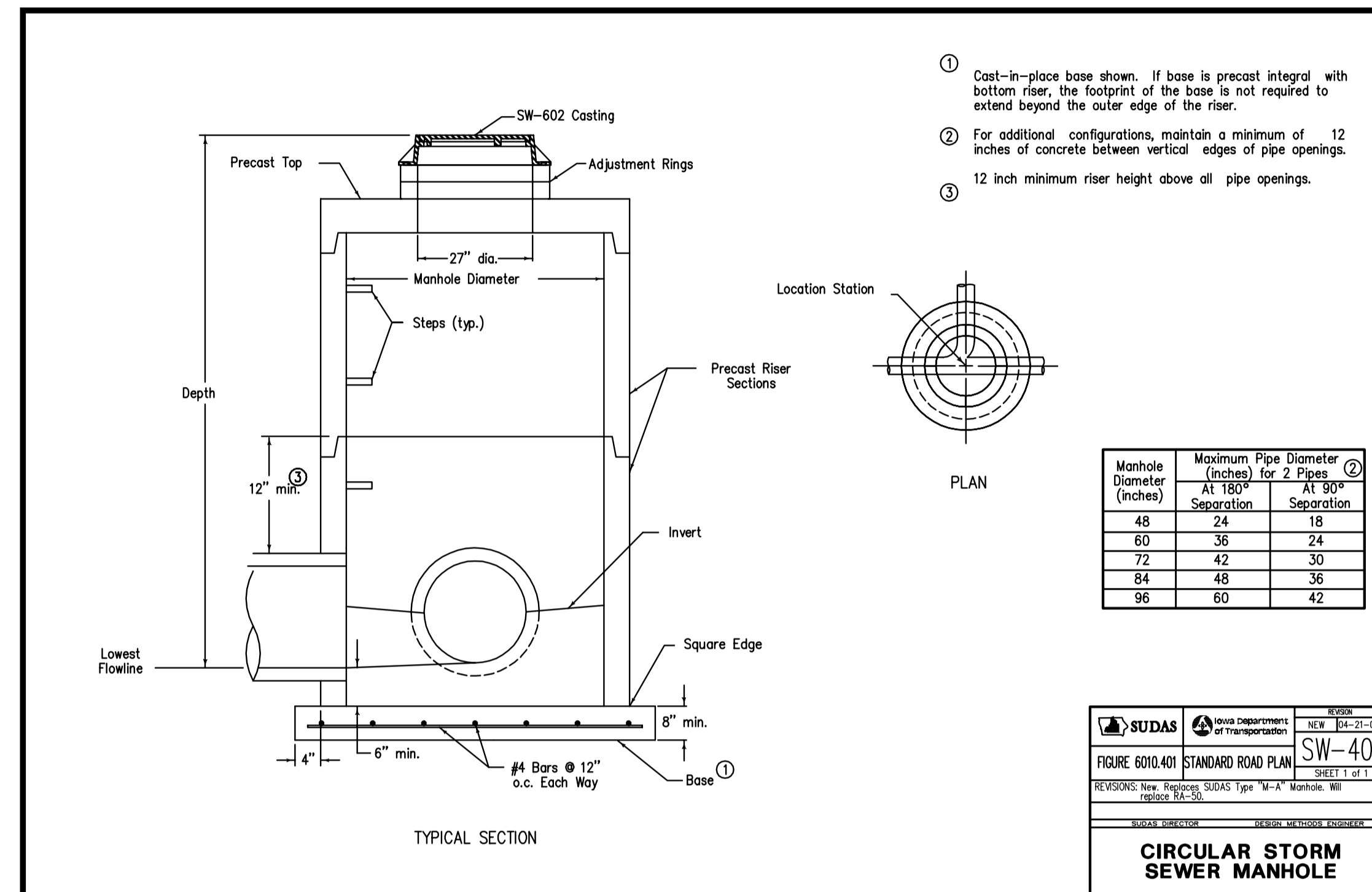
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CITY OF ELDRIDGE	Detail Description	DATE
	STANDARD SANITARY MANHOLE	-
	Detail Number:	-

Revisions			
Description	Date	Num	
ADDENDUM #	FEBRUARY 22, 2006	1	

Comm: _____
Date: 02/08/2016
Drawn: SPK
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North

UTILITY PLAN DETAILS II

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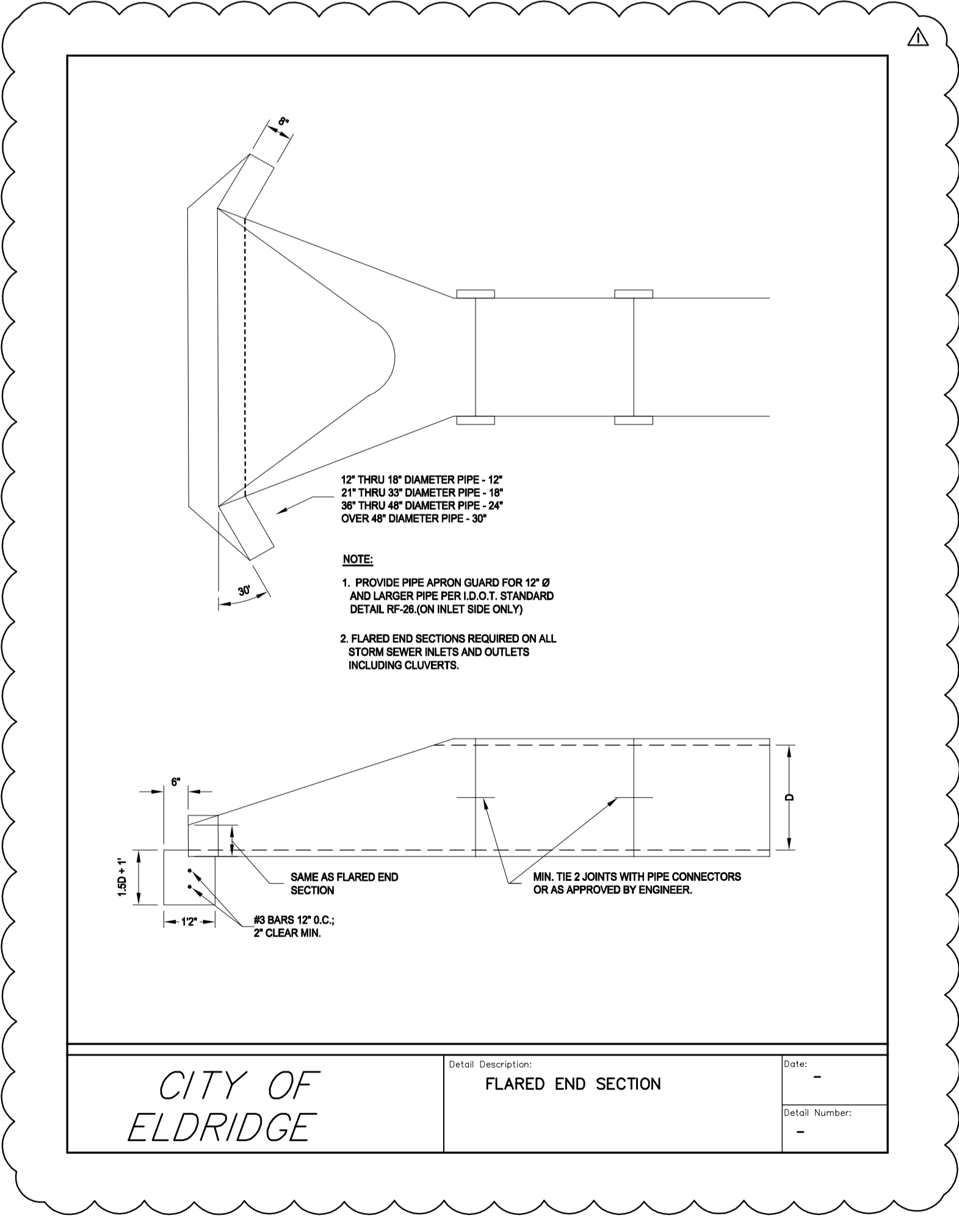
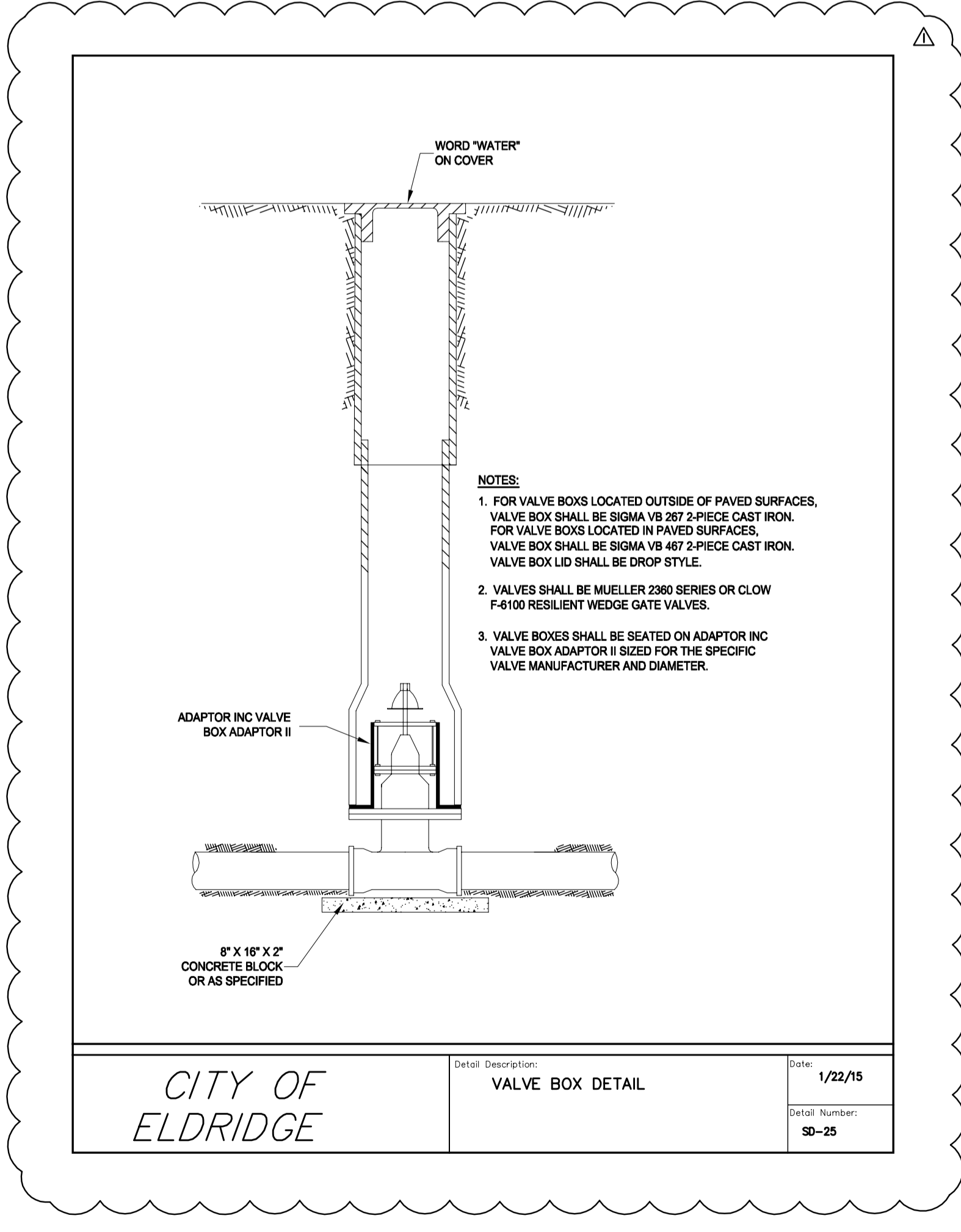
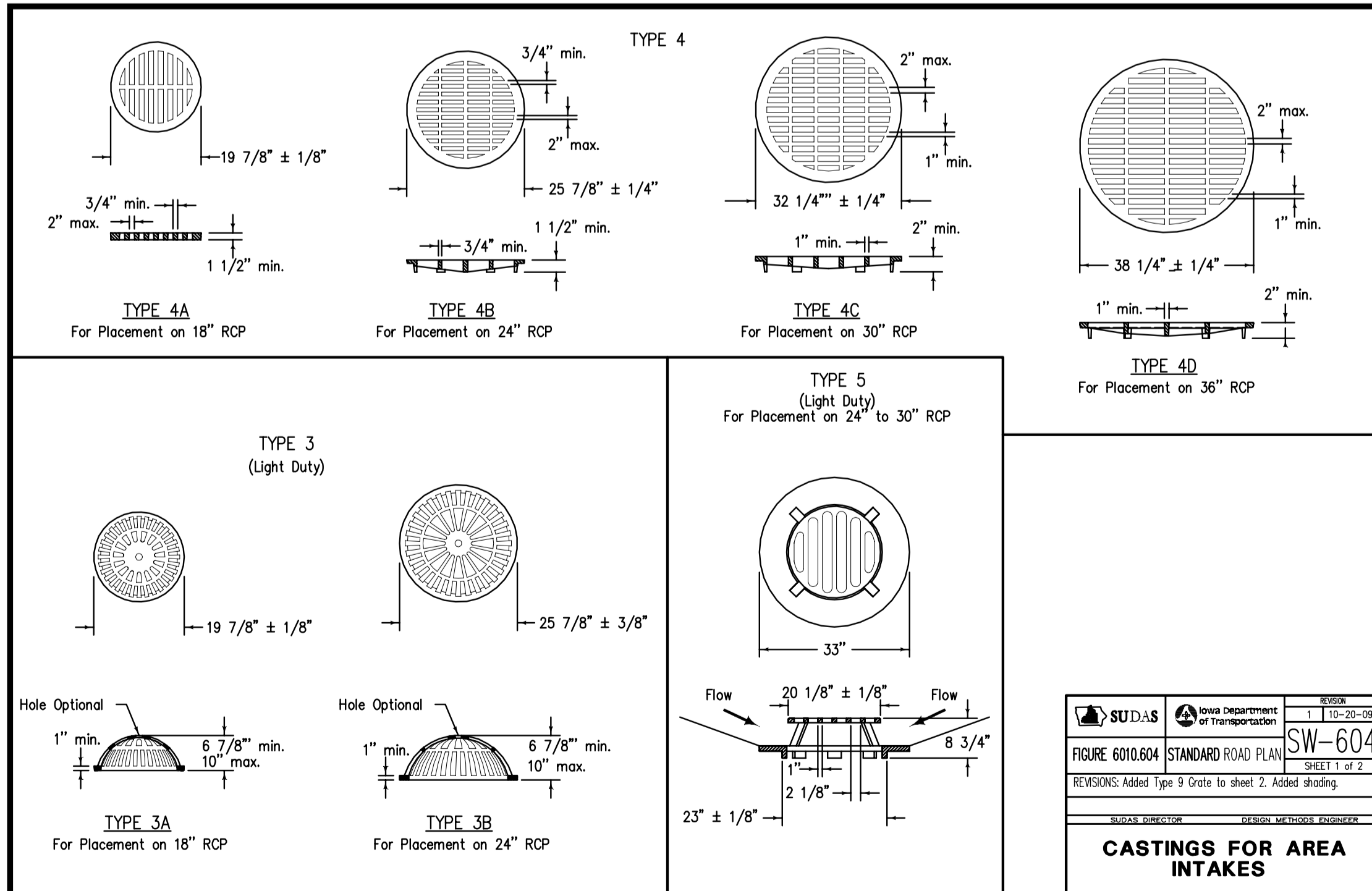
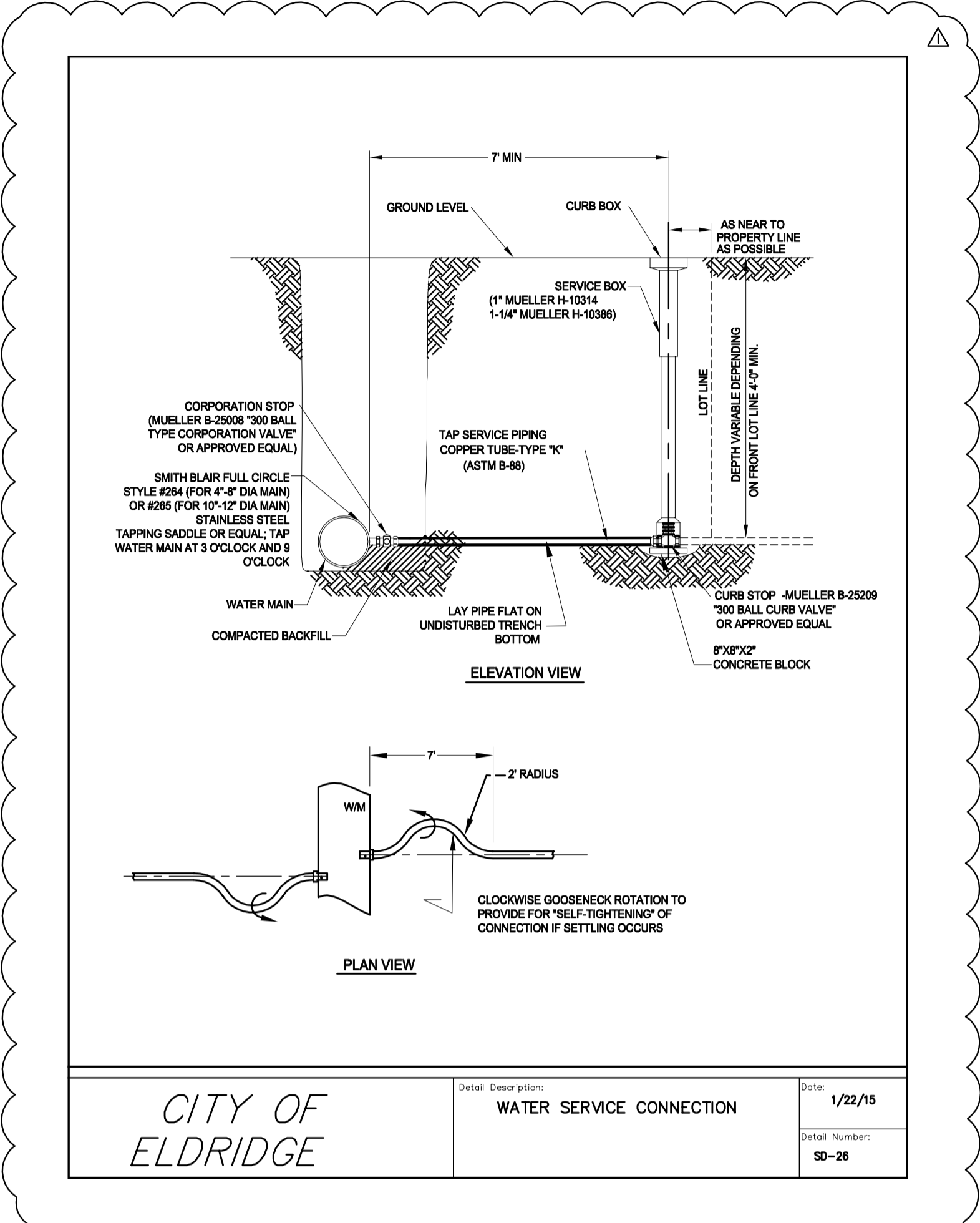
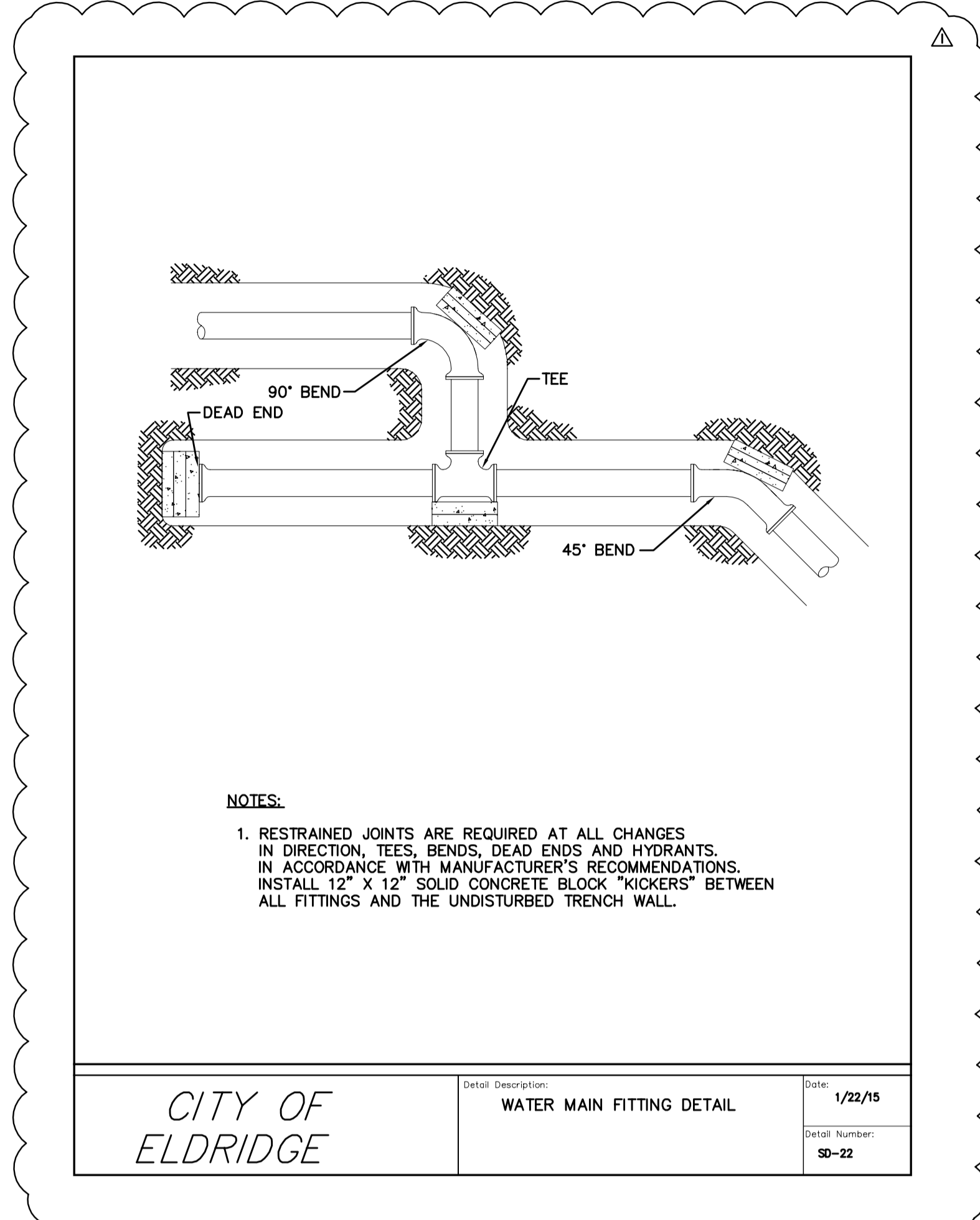
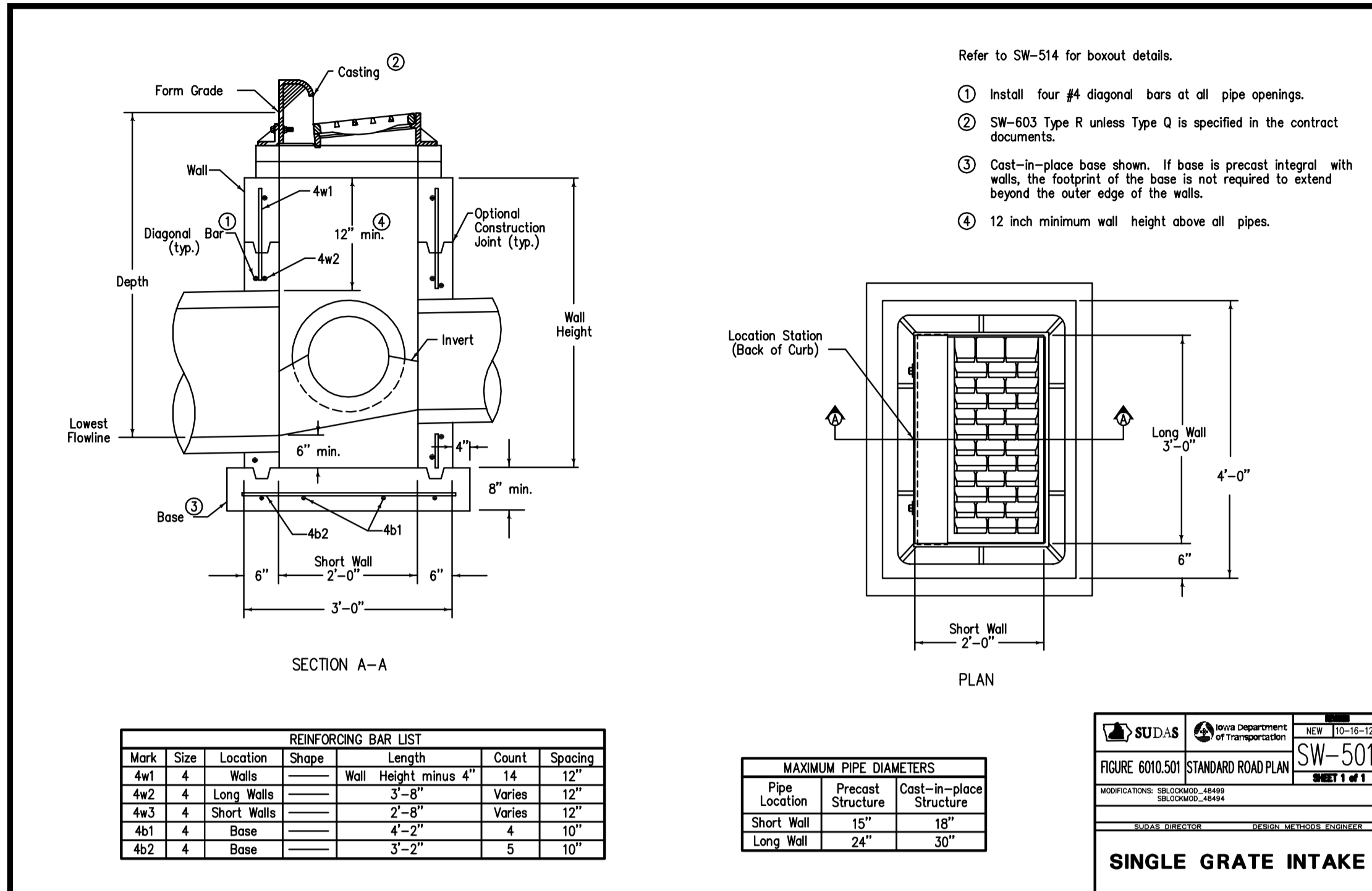
UTILITY PLAN DETAILS III
SHERIFF'S PATROL HEADQUARTERS
ELDRIDGE, IOWA

Sheriff's Patrol Headquarters
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Scott County, Iowa
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 VMCE 13293 - C.1.1

Description	Revisions		
	ADDENDUM #	Date	Num
		FEBRUARY 22, 2016	1

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 Date: 02/08/2016
 Drawn: SPK
 Check: IDA

UTILITY PLAN DETAILS III

Scale: 1" = 20"
C1.11

Sheriff's Patrol Headquarters

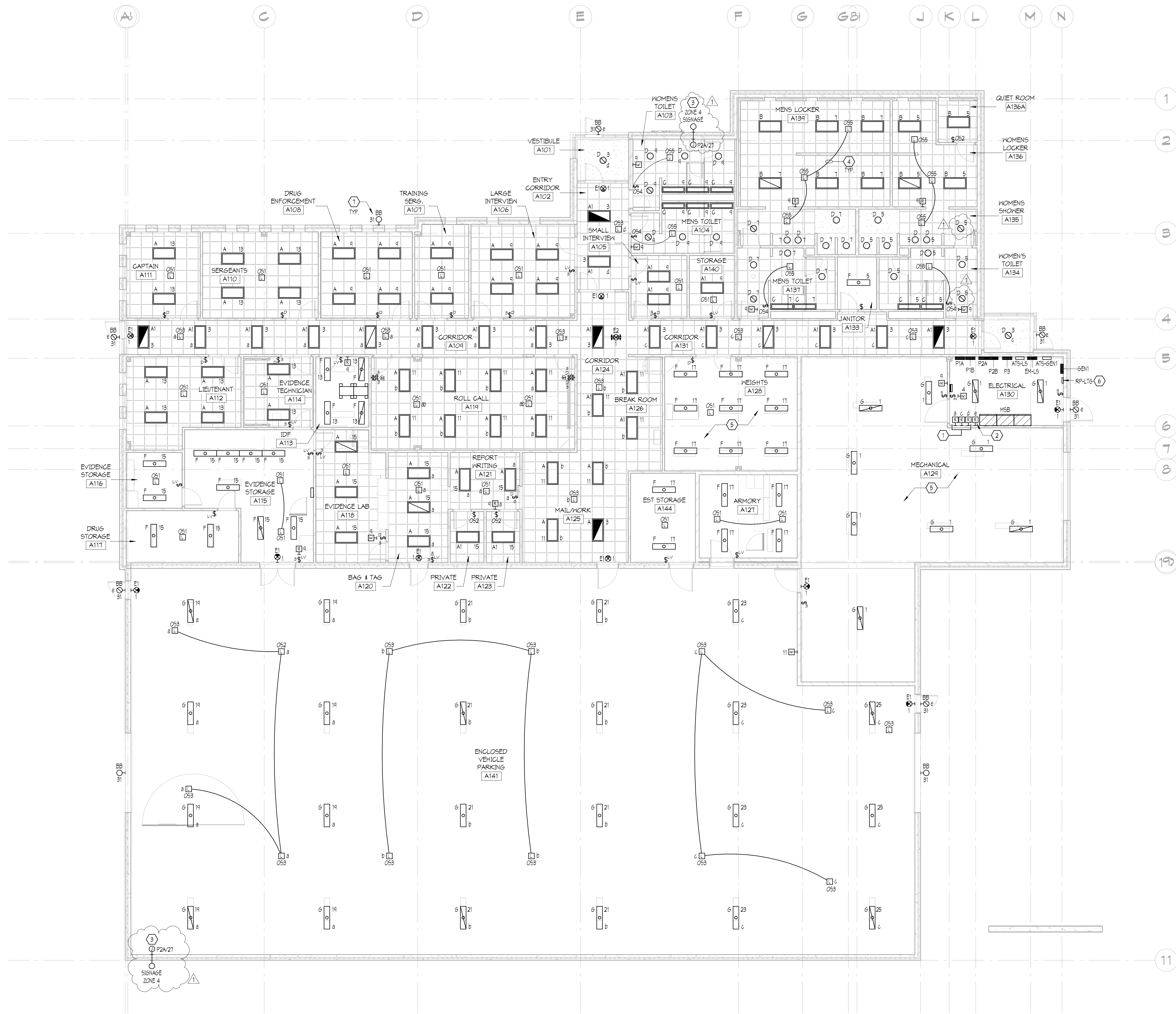
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G2 MAIN LEVEL LIGHTING PLAN
1/8" = 1'-0"

- GENERAL SHEET NOTES**
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR WIRING ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING.
 - ALL RECESSED LIGHTING FIXTURES IN LAY-IN CEILINGS SHALL BE INSTALLED WITH 6' LONG FLEXIBLE METAL CONDUIT.
 - ALL MOUNTING HEIGHTS FOR LIGHTING FIXTURES ARE TO THE BOTTOM OF THE FIXTURES UNLESS INDICATED OTHERWISE.
 - SEE ARCHITECTURAL EXTERIOR ELEVATIONS FOR MOUNTING HEIGHTS OF EXTERIOR LIGHTING FIXTURES. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
 - PROVIDE PROPER NUMBER OF CONDUCTORS TO ACHIEVE CIRCUITING AND SWITCHING SHOWN.
 - CIRCUIT NUMBERS AT DEVICES CORRESPOND TO PANELBOARD BREAKERS (SEE PANELBOARD SCHEDULE). BRANCH CIRCUITS SHALL BE SIZED ACCORDING TO THE CIRCUIT BREAKER RATINGS, UNLESS INDICATED OTHERWISE ON THE ELECTRICAL EQUIPMENT SCHEDULE.
 - USE #10 AWG CONDUCTORS FOR 20 AMPERE, 120 VOLT BRANCH CIRCUITS LONGER THAN 75 FEET, UNLESS SPECIFICALLY INDICATED OTHERWISE. THIS SHALL BE REQUIRED FOR THE ENTIRE LENGTH OF THE CIRCUIT.
- EMERGENCY LIGHTING NOTES**
- NORMAL OPERATING LIGHT FIXTURE. FEED FIXTURE USING EXISTING LIGHTING CIRCUITRY FROM NORMAL PANEL. FEED POWER FROM PANEL P2A.
 - SWITCHED EMERGENCY LIGHT. FEED FIXTURE FROM EMERGENCY PANEL EM-LS VIA EMERGENCY RELAY AS INDICATED ON PLAN DURING EMERGENCY OPERATION.
 - UNSWITCHED EMERGENCY LIGHT (LIGHT). FEED FIXTURE FROM UNSWITCHED CIRCUIT IN EMERGENCY PANEL EM-LS.
 - EXIT LIGHT. FEED FROM UNSWITCHED CIRCUIT IN EMERGENCY PANEL EM-LS.
 - EMERGENCY SHUNT RELAY. LOCATE ABOVE CEILING DIRECTLY ABOVE SWITCHES. FEED EMERGENCY CIRCUIT FROM EM-LS.
- KEYED SHEET NOTES**
- PROVIDE EMERGENCY RELAYS TO BE CONNECTED TO CORRESPONDING SWITCHED EMERGENCY LUMINAIRES IN CORRIDORS: A101 (b), A124-A126 (b), A131 (c), A102 (d). CONNECT TO PANEL EM-LS/4.
 - PROVIDE EMERGENCY RELAY FOR EXTERIOR LUMINAIRES AS ROOM. CONNECT TO PANEL EM-LS/2.
 - PROVIDE POWER TO EXTERIOR SIGNAGE. COORDINATE HEIGHT AND LOCATION WITH DIV. 10. CONNECT LIGHTING CONTROL THROUGH RELAY PANEL RP-4/T5.
 - CONNECT MULTIPLE CEILING MOUNTED OCCUPANCY SENSORS TOGETHER AS SHOWN SO THAT ONE SENSOR WILL TRIGGER ASSOCIATED LIGHTS AS SHOWN TYPICAL.
 - COORDINATE PLACEMENT OF LUMINAIRES WITH MECHANICAL DUCTWORK IN THIS ROOM.
 - PROVIDE RELAY PANEL FOR EXTERIOR LUMINAIRE. RELAY PANEL TO HAVE THE CONTROL. PROVIDE WEATHER-PROOF PHOTOCELL AND COORDINATE EXTERIOR INSTALLATION WITH OWNER. SEE SHEET E01 FOR ZONE CONTROL OF POLE MOUNTED LUMINAIRE. PREPARE FOR CONNECTION TO THE BARN.
 - CONNECT EXTERIOR HALL PAK LIGHTING CONTROL TO ZONE B IN RELAY PANEL RP-4/T6.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER

under the laws of the State of IOWA
Bradley R. Johannsen
BRADLEY R. JOHANNSEN
Registration Number 18415 Date 2/2/16

Description	Revisions	Date	Rev
ADDENDUM #1		2/22/16	1

Comm: 133030
Date: 2/8/16
Drawn: A. NELSON
Check: B. JOHANNSEN

MAIN LEVEL LIGHTING PLAN

Scale: 1/8" = 1'-0"

E1.0



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GENERAL SHEET NOTES

- A. VERIFY LOCATIONS AND ROUGH-IN REQUIREMENTS OF ALL OWNER FURNISHED EQUIPMENT PRIOR TO ROUGH-IN.
- B. CIRCUIT WIRING IS NOT SHOWN EXCEPT FOR SWITCHING INTENT OF FIXTURES AND CONTROL OF DEVICES.
- C. ALL WALLS AND FLOOR MOUNTED BACK BOXES AND JUNCTION BOXES SHALL BE MOUNTED RECESSED. 6FCI RECEPTACLES SHALL BE WIRED TO PROTECT ONLY THE DEVICES IN THAT OUTLET BOX. DOWNSTREAM DEVICES SHALL NOT BE PROTECTED BY 6FCI.
- E. CIRCUIT NUMBERS SHOWN ARE FOR SCHEMATIC PURPOSES AND ARE FOR DISTINGUISHING CIRCUITS. RECORD AS-BUILT CIRCUITING IN A TYPED AND DATED PANELBOARD SCHEDULE.

KEYED SHEET NOTES

1. PROVIDE 120V POWER ABOVE NEW LOCKERS PROVIDED BY OTHERS. LOCKERS TO HAVE NIPERS TO CONNECT TO PLUGS AND PLUG OUTLETS WITHIN THE LOCKER. COORDINATE PLACEMENT WITH ARCHITECT AND HEIGHT REQUIREMENTS WITH LOCKER SUPPLIER. LOCKERS TO BE POWERED FROM PANEL P2 VIA 6FCI BREAKERS.
2. PROVIDE J-BOX AND 3/4" C TO GARAGE DOOR MOTOR FOR DOOR CONTROLS.
3. PROVIDE 120V POWER TO ADA DOOR MOTOR AND ASSOCIATED ACTUATOR. PROVIDE RACEWAY AND JUNCTION BOX FOR BUTTON PROVIDED BY DIV. 8. SEE DETAIL BY ON SHEET P1 FOR MOTOR INFORMATION.
4. PROVIDE POWER OUTLET FOR TAPER BOX LOCATED IN LOCKABLE UPPER CABINET. COORDINATE WITH ARCHITECT.
5. PROVIDE (4) DUPLEX POWER OUTLETS AT SHOWN HEIGHTS IN 4" TALL CABINET. COORDINATE WITH ARCHITECT.
6. PROVIDE 120V POWER TO CEILING MOUNTED PROJECTOR SCREEN MOTOR.
7. PROVIDE 120V DIRECT CONNECT TO WALL MOUNTED UNIT HEATER. COORDINATE HEIGHT WITH MECHANICAL.
8. PROVIDE 120V POWER TO AUTOMATIC FLUSH VALVES. PROVIDE JUNCTION BOX IN ACCESSIBLE CEILING SPACE FOR FLUSH VALVE TRANSFORMERS. COORDINATE WITH MECHANICAL.
9. PROVIDE POWER TO FIRE ALARM CONTROL PANEL FROM PANEL EM-LS.
10. PROVIDE 120V POWER TO AUTOMATIC FAUCET. PROVIDE JUNCTION BOX IN ACCESSIBLE CEILING SPACE FOR FAUCET TRANSFORMERS. COORDINATE WITH MECHANICAL. TYPICAL.
11. PROVIDE 120V POWER FROM PANEL EM-LS FOR VESPA PANEL PROVIDED BY MECHANICAL. COORDINATE HEIGHT AND PLACEMENT WITH MECHANICAL.
12. PROVIDE 120V POWER FROM PANEL EM-LS FOR BUILDING AUTOMATION SYSTEMS PANEL PROVIDED BY MECHANICAL. COORDINATE HEIGHT AND PLACEMENT WITH MECHANICAL.
13. PROVIDE 120V POWER FROM PANEL EM-LS FOR DRY ASSEMBLY SYSTEM PROVIDED BY MECHANICAL. COORDINATE LOCATION OF ASSEMBLY WITH MECHANICAL.
14. PROVIDE SURFACE RACEWAY AND BOX FOR DOOR ACTUATOR BUTTON PROVIDED BY DIVISION 8.
15. PROVIDE 120V POWER AT TOP OF FUTURE LOCKERS PROVIDED BY OTHERS. PROVIDE COVER PLATES. COORDINATE PLACEMENT WITH ARCHITECT. MATCH INSTALLATION HEIGHT OF OTHER LOCKERS PROVIDED. LOCKERS TO BE POWERED FROM PANEL P2 VIA 6FCI BREAKERS.
16. PROVIDE 120V POWER TO GENERATOR REMOTE CONTROL AND MONITORING PANEL FROM PANEL EM-LS.
11. PROVIDE UNDERGROUND CONDUIT TO MOUNT DOOR ACTUATOR BUTTON ON BOLLARD.
15. PROVIDE POWER SWITCH WITH LED INDICATOR TO TURN ON AND OFF HIDDEN CAMERAS IN ROOM. CAMERAS AND ASSOCIATED CABLEING PROVIDED BY OWNER.
19. PROVIDE SINGLE GANG BOX MOUNTED AT 60" AFF WITH 3-WAY CONDUIT TO ACCESS CEILING. PINHOLE/THERMOSTAT CAMERA AND ASSOCIATED CABLEING BY OWNER.
20. CONFIRM OUTLET REQUIREMENTS WITH OWNER. DATA RACKS PROVIDED BY OWNER.
21. PROVIDE 8" TALL X 3-3/4" AC GRADE PLYWOOD. PAINT ALL SIDES WITH FIRE RETARDANT PAINT.
22. SEE DETAIL E8.11 ON SHEET E8.00 FOR GROUND BAR DETAIL.

D1 MAIN LEVEL POWER PLAN - IDF
1/4" = 1'-0"

G2 MAIN LEVEL POWER PLAN
1/8" = 1'-0"

20250119 10:27 AM
 C:\Users\johannsen\OneDrive\Documents\Projects\2025\250119 Sheriff's Patrol Headquarters\250119 Sheriff's Patrol Headquarters.dwg
 2/22/2025 10:27 AM

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER

under the laws of the State of IOWA
 Signature: Bradley R. Johannsen
 Registration Number: 18475 Date: 2/2/16

Description	Revisions	Date	Rev
APPENDUM #1		2/22/16	1

Comm: 133030
 Date: 2/3/16
 Drawn: A. NELSON
 Check: B. JOHANNSEN

MAIN LEVEL POWER PLAN

Scale: As indicated
E2.0



GENERAL SHEET NOTES

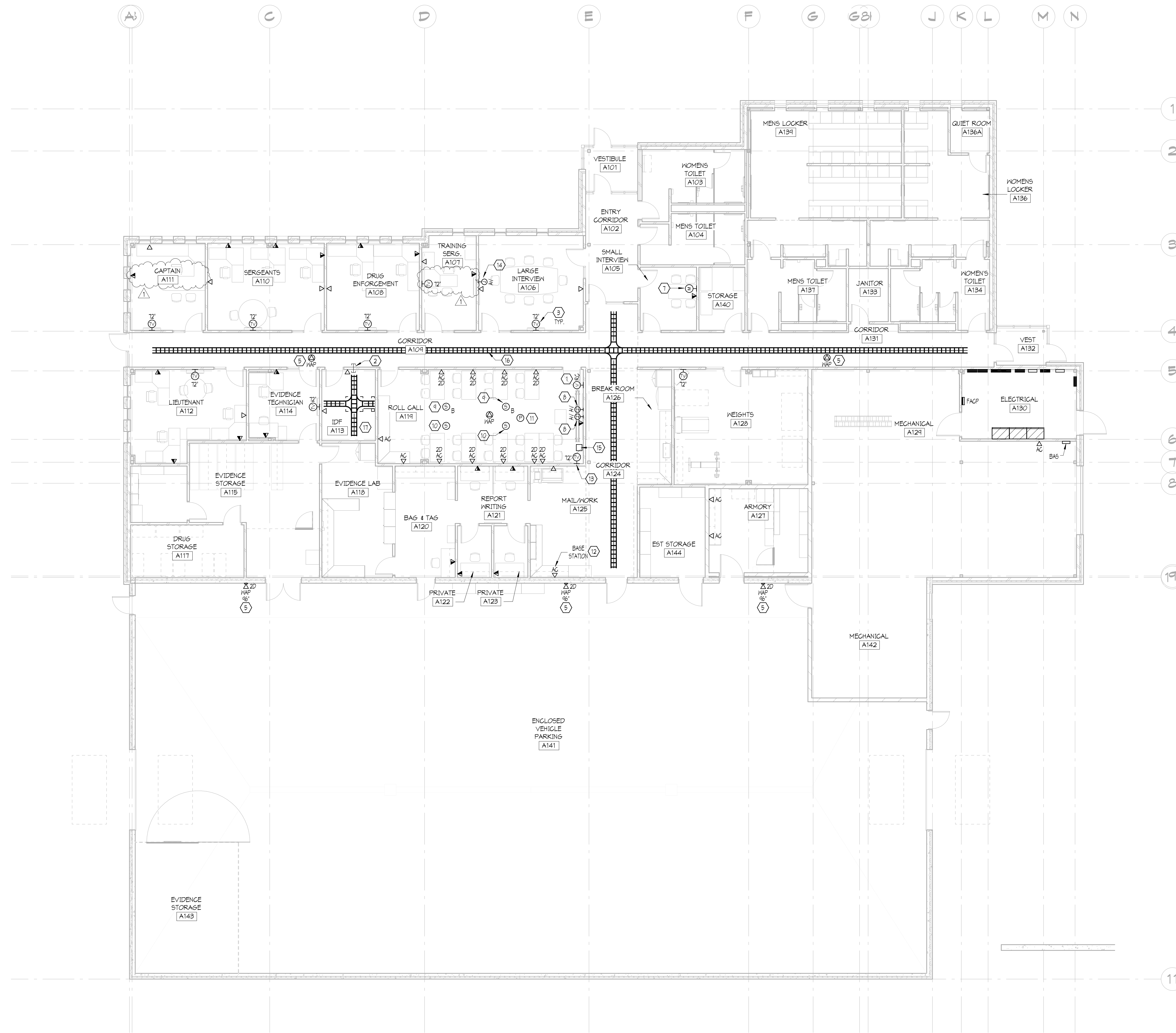
- A. TELECOM CABLING AND DEVICES BY OWNER. PROVIDE CONDUIT TO ACCESS CEILING AND J-BOXES AT LOCATIONS SHOWN.

KEYED SHEET NOTES

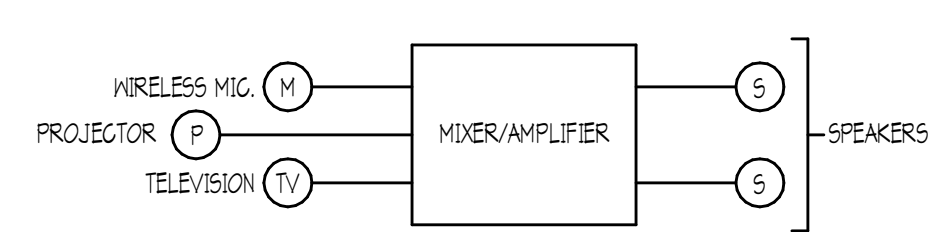
1. PROVIDE VOLUME CONTROL KNOB FOR SPEAKERS IDENTIFIED WITH 'B'.
2. PROVIDE 1" EMT CONDUIT SLEEVES WITH BUSINGS ON BOTH ENDS. COORDINATE INSTALLATION IN FIELD. SEE DETAIL F4 ON SHEET E4.0 FOR MORE INFORMATION.
3. PROVIDE ROUGH-IN AND 1" TO ACCESS CEILING FOR FUTURE TV CABLING. TYPICAL.
4. PROVIDE 12"x4" LADDER CABLE TRAY ABOVE CEILING HEIGHT. COORDINATE LOCATION AND LAYOUT WITH OWNER. CEILING MOUNTED WIRELESS ACCESS POINTS AND ASSOCIATED BY OWNER AND ARE SHOWN FOR REFERENCE ONLY.
5. WALL MOUNTED WIRELESS ACCESS POINTS AND ASSOCIATED BY OWNER. PROVIDE SURFACE RACEWAY FOR WAP.
6. PROVIDE MICROPHONE AND ASSOCIATED CABLING BACK TO IDF TO CONNECT TO HUB RACKS PROVIDED BY OWNER.
7. PROVIDE VISA AND HDMI OUTLETS FOR PROJECTOR AND TV TO BE INSTALLED IN ROOM. PROVIDE PLENUM RATED HDMI AND VISA CABLING TO PROJECTOR AND TV IN THIS ROOM. SEE DETAIL H2 ON SHEET E4.0 FOR MORE INFORMATION.
8. PROVIDE CEILING MOUNTED ROLL CALL SPEAKERS AND CONNECT TO RADIO BASE STATION LOCATED IN ROOM A125. PROVIDE CEILING MOUNTED SPEAKER TO AND CONNECT TO ROOM AV SYSTEM.
9. CEILING MOUNTED PROJECTOR BY OWNER. PROVIDE CEILING MOUNTED VISA AND HDMI DUAL OUTLET. SEE DETAIL G1 ON SHEET E1.1 FOR MORE INFORMATION.
10. RADIO BASE STATION PROVIDED BY OWNER AND ASSOCIATED CABLING BY OWNER. PROVIDE BOX AND ROUTE CONDUIT TO ROOF MOUNTED ANTENNAE AND FOR SPEAKERS IN ROOM A119. PROVIDE 2" CONDUIT TO ROOF FOR ROOF ANTENNAE PROVIDED BY OWNER.
11. PROVIDE DUAL INLET HDMI/VISA OUTLET FOR TV. SEE DETAIL H4 ON SHEET E4.0 FOR MORE INFORMATION.
12. PROVIDE VISA AND HDMI OUTLETS FOR MONITOR TO BE INSTALLED IN ROOM. PROVIDE PLENUM RATED HDMI AND VISA CABLING. SEE DETAIL H4 ON SHEET E4.0 FOR MORE INFORMATION.
13. PROVIDE AUDIO MIXER/AMP FOR ROOM AV. MIXER TO ACCEPT INPUTS FROM ROOM TV, PROJECTOR, AND AV WALL OUTLET. DESORBED WITH KEYPAD NOTE 'B'. SEE DETAIL H5 THIS SHEET FOR ONE-LINE DIAGRAM.
14. PROVIDE 14"x4" BASKET CABLE TRAY ABOVE CEILING HEIGHT IN CORRIDORS.
15. PROVIDE 14"x4" LADDER CABLE TRAY AT 10' IN IDF ROOM.

DATA OUTLET NOTE

- ▷ DATA OUTLET - ROUGH IN ONLY. # INDICATES NUMBER OF DROPS (BLANK INDICATES THREE DROPS).
- ▷ ROUGH-IN BY ELECTRICAL CONTRACTOR. CABLING BY COUNTY. TYPICAL THROUGHOUT NEW CONSTRUCTION AREAS.



G2 MAIN LEVEL DATA AND COMMUNICATIONS PLAN
1/8" = 1'-0"



- NOTES:
1. PROVIDE WIRELESS HEARABLE MICROPHONE
 2. PROVIDE WALL MOUNT RACK FOR AMPLIFIER. COORDINATE FINAL HEIGHT AND LOCATION WITH OWNER.
 3. PROVIDE MID RING IN REAR OF MIXER FOR FEEDING AUDIO CABLING THROUGH.

HS SOUND SYSTEM ONE-LINE DIAGRAM
N.T.S.

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed PROFESSIONAL ENGINEER

under the laws of the State of IOWA
Bradley R. Johannsen
BRADLEY R. JOHANNSEN
Registration Number 18415 Date 2/8/16

Description #1	Revisions	Date	Rev
		2/22/16	1

Comm: 130330
Date: 2/8/16
Drawn: A. NELSON
Check: B. JOHANNSEN

MAIN LEVEL DATA AND COMMUNICATIONS PLAN

Scale: As indicated

E3.0

SWITCHBOARD table with columns: NAME, MBB, VOLTAGE, BUS, LOCATION, MOUNTING, FLOOR, PH, FS, FUSE, TYPE, SCHEDULE NOTES.

PANELBOARD: P1A table with columns: #, LOAD DESCRIPTION, LT, BKR, P, PHASE A, PHASE B, PHASE C, P, BKR, LT, LOAD DESCRIPTION, #.

PANELBOARD: P1B table with columns: #, LOAD DESCRIPTION, LT, BKR, P, PHASE A, PHASE B, PHASE C, P, BKR, LT, LOAD DESCRIPTION, #.

PANELBOARD: EM-LS table with columns: #, LOAD DESCRIPTION, LT, BKR, P, PHASE A, PHASE B, PHASE C, P, BKR, LT, LOAD DESCRIPTION, #.

PANELBOARD: P2A table with columns: #, LOAD DESCRIPTION, LT, BKR, P, PHASE A, PHASE B, PHASE C, P, BKR, LT, LOAD DESCRIPTION, #.

PANELBOARD: P2B table with columns: #, LOAD DESCRIPTION, LT, BKR, P, PHASE A, PHASE B, PHASE C, P, BKR, LT, LOAD DESCRIPTION, #.

PANELBOARD: P3 table with columns: #, LOAD DESCRIPTION, LT, BKR, P, PHASE A, PHASE B, PHASE C, P, BKR, LT, LOAD DESCRIPTION, #.

PANELBOARD: GEN1 table with columns: #, LOAD DESCRIPTION, LT, BKR, P, PHASE A, PHASE B, PHASE C, P, BKR, LT, LOAD DESCRIPTION, #.

Sheriff's Patrol Headquarters, Scott County, WOLD architects engineers, www.woldae.com.

Professional Engineer signature block with name Bradley R. Johannsen, registration number 18475, date 2/2/16.

ELECTRICAL SCHEDULES, Scale: N.T.S., E7.0.

LUMINAIRE FIXTURE SCHEDULE

ID	FIXTURE TYPE	MOUNTING	VOLTS	QTY	WATTS	LAMPS TYPE	CONTROL MEDIA (LENS, LOWERS, ETC.)	FITTING DESCRIPTION	MANUFACTURER'S PRODUCTS SERIES	NOTES
A	2X4 RECESSED LED TROFFER VOLUMETRIC LENS	RECESSED IN GRID CEILING	120	1	40	LED 4000K	VOLUMETRIC CENTER LENS	POST-PAINTED MATTE WHITE STATIC TROFFER 0-10V LED DIMMING DRIVER DLG CERTIFIED	H.E. WILLIAMS LT-24-L43-040-AF-DM-IN-V LITHONIA 2BL14-30-LA-DM-EI-LP-840 METALUX 24C2-LD-40-5-NV-L840-CD1 COLUMBIA LGAT-24-40M-6-ED-U	
A1	2X4 RECESSED LED TROFFER VOLUMETRIC LENS	RECESSED IN GRID CEILING	120	1	30	LED 4000K	VOLUMETRIC CENTER LENS	POST-PAINTED MATTE WHITE STATIC TROFFER 0-10V LED DIMMING DRIVER DLG CERTIFIED	H.E. WILLIAMS LT-24-L30-040-AF-DM-IN-V LITHONIA 2BL14-30-LA-DM-EI-LP-840 METALUX 24C2-LD-40-5-NV-L840-CD1 COLUMBIA LGAT-24-40M-6-ED-U	
B	2X4 LENSED RECESSED LED TROFFER	RECESSED IN GRID CEILING	120	1	40	LED 4000K	ACRYLIC PATTERN 12 0.125" MINIMUM LENS	POST-PAINTED MATTE WHITE STATIC TROFFER TRIST LOCK SOCKET, SPRING-LOADED LATCH 0-10V LED DIMMING DRIVER DLG CERTIFIED	H.E. WILLIAMS LPT-24-L42-040-5-A12125-DM-IN-V LITHONIA 2BL14-40-LA-DM-EI-LP-840 METALUX 24C2-LD-40-5-NV-L840-CD1-PAF-U COLUMBIA LGAT-24-40M-6-FA-A12125-ED-U	
C	1X4 LENSED RECESSED LED TROFFER OVERLAPPING FLANGE KIT	RECESSED	120	1	22	LED 4000K	ACRYLIC PATTERN 12 0.125" MINIMUM LENS	POST-PAINTED MATTE WHITE STATIC TROFFER 0-10V LED DIMMING DRIVER FLANGE KIT DLG CERTIFIED	H.E. WILLIAMS S0-F15-14-L20-040-RA-F12125-DM-IN-V LITHONIA S11-4F-801-40W-2L-9840 COLUMBIA LGAT-14-40-L43-FA12125-ED-HPK14 METALUX 14SR-RAM-LD4-20-A125-NV-L840-CD1-PAF-U	1
D	LED 6" DOWNLIGHT (SEE LOCATION LISTED)	RECESSED	120	1	28	LED 4000K	ACRYLIC PATTERN 12 0.125" MINIMUM LENS	HEAT SINK AND SOK RATED LIFE, (SEE LOCATION LISTED) 1100 LUMEN OUTPUT MINIMUM 0-10V DIMMING WHITE TRIM 5 YEAR WARRANTY	H.E. WILLIAMS LK-0-L15-040-05-WHT-DM-IN-V LITERAME LFL-ELED56-40C-WHT HALO HT501CAT-MLB12840-020G 60THAM EVO-40/15-8WR-30-155-MVOLT-EI	
E1	EXIT SIGN SINGLE FACE	UNIVERSAL	120	1	5	LED	RED OPTICAL DIFFUSER	MATTE WHITE CAST ALUMINUM HOUSING INVISIBLE ARROW KNOCKOUTS	LITHONIA LE-5-1 SERIES DUAL-LITE SEMIPRA SERIES SURE-LITES CX SERIES LIGHTOLIER LP SERIES	
E2	EXIT SIGN DOUBLE FACE	UNIVERSAL	120	1	5	LED	RED OPTICAL DIFFUSER	MATTE WHITE CAST ALUMINUM HOUSING INVISIBLE ARROW KNOCKOUTS	LITHONIA LE-5-1 SERIES DUAL-LITE SEMIPRA SERIES SURE-LITES CX SERIES LIGHTOLIER LP SERIES	
F	LED SUSPENDED	SUSPENDED 3'	120	1	40	LED 4000K	SMOOTH ACRYLIC LENS	MATTE WHITE CAST ALUMINUM HOUSING 10-25% UPLIGHT 0-10V LED DIMMING DRIVER	SEE LEGEND B1-1-101-140-00-060-WHT-R4-120-607-62B-LP840-AV15-SLJH-LED-55-205-050-100-30-40-L-4-4-4-WH-NV-D-1-CA * ALBENA LPT-04-40-L43-040-DM-IN-V * OR APPROVED EQUAL	
G	LED SUSPENDED INDUSTRIAL HIGH-BAY	CHAN HUNG	120	1	80	LED 4000K		MATTE WHITE HOUSING WIDE DISTRIBUTION 4000 LUMENS MINIMUM DLG CERTIFIED	LITHONIA SH-4000-M-600-30-40-DM-IN-VOLT-0210-40K-80CK1 COLUMBIA LHM-144-40-WHT-ED-U METALUX 4LED-LD4-40M-6-ED-U COLUMBIA LGAT-14-40-L43-FA12125-ED-HPK14 OR APPROVED EQUAL	
A43	POLE MOUNT AREA LIGHT	ARM	120	1	100	LED 4000K		LED ARM MOUNT FIXTURE, 100 mA DRIVE CURRENT DIE-CAST ALUMINUM HOUSING 20-FOOT SQUARE TAPERED ALUMINUM POLE BLACK FINISH TYPE II DISTRIBUTION INTERNAL VIBRATION DAMPENER DLG CERTIFIED	LITHONIA D5V1 LED-300-700-40K-T8M-NVOLT-6PA-DBLUD BEACON VPS-30N-40-4K-T4-NV-BBT MCGRAW-HILL LED-300-700-40K-T8M-NVOLT-6PA-DBLUD H.E. WILLIAMS VAH-ED60/740-T4-F-8-BLK-EDD1PH-NV	
A44	POLE MOUNT AREA LIGHT	ARM	120	1	100	LED 4000K		LED ARM MOUNT FIXTURE, 100 mA DRIVE CURRENT DIE-CAST ALUMINUM HOUSING 20-FOOT SQUARE TAPERED ALUMINUM POLE BLACK FINISH TYPE II DISTRIBUTION INTERNAL VIBRATION DAMPENER DLG CERTIFIED	LITHONIA D5V1 LED-300-700-40K-T8M-NVOLT-6PA-DBLUD BEACON VPS-30N-40-4K-T4-NV-BBT MCGRAW-HILL LED-300-700-40K-T8M-NVOLT-6PA-DBLUD H.E. WILLIAMS VAH-ED60/740-T4-F-8-BLK-EDD1PH-NV	
BB	EXTERIOR LED WALL PAK TRIANGULAR SHAPE	WALL	120	1	50	LED 4000K		DIE-CAST ALUMINUM HOUSING BLACK FINISH TYPE II DISTRIBUTION 12 MOUNTING HEIGHT	LITHONIA MET-LED-110-1000-40K-5R3-NVOLT-DBLUD SPALLDING TRP-90-4K-059-3-BL MCGRAW-HILL LED-110-1000-40K-5R3-NVOLT-DBLUD	
CC	LED BOLLARD	GROUND	120	1	22	LED 4000K		DIE-CAST ALUMINUM HOUSING BLACK FINISH SYMMETRICAL DISTRIBUTION CYLINDRICAL BOLLARD	LITHONIA KB84-120-630-40K-5YM-NVOLT-DMG-DBLUD H.E. WILLIAMS OSABR-120-630-40K-AC-FI-BLK-AB-DM-IN-V SPALLDING FIQ-2121BK-G-BL-CD * U.S. ARCHITECTURAL LIGHTING BRAD-LED-TR-181-ED-NM-120-630-BL-DM * OR APPROVED EQUAL	
DD	LED FLOOD LIGHTS	GROUND	120	1	30	LED 4000K		DIE-CAST ALUMINUM HOUSING BLACK FINISH NARROW BEAM KNUCKLE MOUNTING	SPALLDING ARF1K-101-4K-070-44-BL LITHONIA D5V1 LED-2-4830-40K-NVOLT-TRK-DBLUD H.E. WILLIAMS VPS-48-30-40K-NVOLT-TRK-DBLUD COOPER VPS-48-30-40K-NVOLT-TRK-DBLUD OR APPROVED EQUAL	

GENERAL NOTES:
 A. Locations on drawings of industrial-type fixtures are approximate to show general intent. Verify all locations and heights with other disciplines prior to clear all equipment and piping.
 B. Fixture quantities are per cross section unless otherwise noted.

NOTES:
 1. LUMINAIRES REQUIRE A FLANGE KIT FOR INSTALLATION INTO 6" IP CEILING.

* LUMINAIRES ADDED IN ADDENDUM #1

MOTOR SCHEDULE

MTR	DESCRIPTION	LOAD INFORMATION				CONDUIT		WIRE QUANTITY AND SIZE				WIRE TYPE		STARTER				DISCONNECT				CTRLS BY	NOTES	MTR			
		LOC	LOAD	UNIT	VOLTAGE	PANEL	SET(S)	SIZE	TYPE	PHASE	NEUT	COND	TYPE	INSUL	SUPPLIED	INSTALLED	SIZE	LOC	SUPPLIED	INSTALLED	TYPE				SIZE	LOC	
AHU-1.5	AIR HANDLING UNIT SUPPLY	A129	10	HP	208/3	P3	1	3/4"	EMT	3	8 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	MEGH	ELEC	VFD	MTR	MEGH	AHU-1.5		
AHU-1.R	AIR HANDLING UNIT RETURN	A129	7.5	HP	208/3	P3	1	3/4"	EMT	3	10 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	MEGH	ELEC	VFD	MTR	MEGH	AHU-1.R		
AHU-2	AIR HANDLING UNIT	A129	3	HP	208/3	6EN1	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	MEGH	ELEC	VFD	MTR	MEGH	AHU-2		
B1	BOILER	A129	2.4	FLA	208/3	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	MEGH	MEGH		MTR	MEGH	MEGH			MTR	MEGH	B1	
CRU-1	COMPUTER ROOM UNIT	ROOF	18.0	MCA	208/1	6EN1	1	3/4"	EMT	2	12 AWG		12 AWG	CU	THHN	MEGH	MEGH		MTR	MEGH	MEGH			MTR	MEGH	CRU-1	
CUH-1	CABINET UNIT HEATER	A101	1/15	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	CUH-1	
CUH-2	CABINET UNIT HEATER	A132	1/15	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	CUH-2	
EF-1	EXHAUST FAN	ROOF	1/2	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	MEGH	MEGH		MTR	MEGH	MEGH			MTR	MEGH	EF-1	
EF-2	EXHAUST FAN	ROOF	1/4	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	ELEC	ELEC	SIZE 00	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	EF-2	
EF-3	EXHAUST FAN	ROOF	1/4	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	ELEC	ELEC	SIZE 00	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	EF-3	
EF-4	EXHAUST FAN	ROOF	1/2	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	ELEC	ELEC	SIZE 00	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	EF-4	
EF-5	EXHAUST FAN	ROOF	1/2	HP	120/1	6EN1	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	MEGH	MEGH		MTR	MEGH	MEGH			MTR	MEGH	EF-5	
EF-6	EXHAUST FAN	ROOF	1/4	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	MEGH	MEGH		MTR	MEGH	MEGH			MTR	MEGH	EF-6	
HUM-1	HUMIDIFIER	A129	18.1	KW	208/3	6EN1	1	1 1/4"	EMT	3	4 AWG		6 AWG	CU	THHN	MEGH	MEGH		MTR	MEGH	MEGH			MTR	MEGH	HUM-1	
HP-1.2	HEAT PUMP	A129	102	MCA	208/3	6EN1	1	1 1/2"	EMT	3	1/0 AWG		6 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	200A	MTR	MEGH	HP-1.2	
HP-3.4	HEAT PUMP	A129	47	MCA	208/3	MSB	1	1 1/2"	EMT	3	1/0 AWG		6 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	200A	MTR	MEGH	HP-3.4	
MAU-1.5	MAKE-UP AIR UNIT SUPPLY	A129	10	HP	208/3	P3	1	3/4"	EMT	3	8 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	60A	MTR	MEGH	MAU-1.5	
MAU-1.R	MAKE-UP AIR UNIT RETURN	A129	7.5	HP	208/3	P3	1	3/4"	EMT	3	10 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	60A	MTR	MEGH	MAU-1.R	
P1	PUMP	A129	15	HP	208/3	6EN1	1	3/4"	EMT	3	6 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	60A	MTR	MEGH	P1	
P2	PUMP	A129	15	HP	208/3	MSB	1	3/4"	EMT	3	6 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	60A	MTR	MEGH	P2	
P3	PUMP	A129	5	HP	208/3	6EN1	1	3/4"	EMT	3	10 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	P3	
P4	PUMP	A129	5	HP	208/3	P3	1	3/4"	EMT	3	10 AWG		10 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	P4	
P5	PUMP	A129	3	HP	208/3	6EN1	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	P5	
P6	PUMP	A129	3	HP	208/3	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	ELEC	VFD	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	P6	
P7	PUMP	A129	1/3	HP	208/3	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	ELEC	SIZE 0	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	P7	
P8	PUMP	A129	0.36	HP	120/1	P3	1	3/4"	EMT	2	12 AWG	12 AWG	12 AWG	CU	THHN	ELEC	ELEC	SIZE 00	MTR	ELEC	ELEC	F5	30A	MTR	MEGH	1	P8
UH-1	UNIT HEATER	A129	1/20	HP	120/1	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	UH-1	
UH-2	UNIT HEATER	A129	1/20	HP	120/1	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	UH-2	
UH-3	UNIT HEATER	A129	1/20	HP	120/1	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	UH-3	
UH-4	UNIT HEATER	A129	1/20	HP	120/1	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	UH-4	
WH-1	WATER HEATER	A129	5	FLA	120/1	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	WH-1	
WH-2	WATER HEATER	A129	5	FLA	120/1	P3	1	3/4"	EMT	3	12 AWG		12 AWG	CU	THHN	MEGH	MEGH		MTR	ELEC	ELEC	F5	30A	MTR	MEGH	WH-2	

GENERAL NOTES:
 A. ALL FUSE SIZES/BREAKER TRIPS ARE ESTIMATED. CONTRACTOR TO FIELD VERIFY INSTALLED MOTOR REQUIREMENTS.

NOTES:
 1. OVERLOAD INTEGRAL TO UNIT AND PROVIDED BY MFG.

OCCUPANCY SENSOR SCHEDULE

TYPE	MANUFACTURER MODEL NUMBER	TECHNOLOGY	MOUNTING	ON	OFF	DIMMING	TIME DELAY SETTING	LY RELAY	NOTES
OS1	WATTSTOPPER DT-305	DUAL TECH	CEILING	MANUAL	AUTO	NO	15 MINS	NO	
OS2	WATTSTOPPER PW-100	PIR	WALL	MANUAL	AUTO	NO	15 MINS	NO	
OS3	WATTSTOPPER DT-305	DUAL TECH	CEILING	AUTO	AUTO	NO	MAX. 30 MINS	NO	
OS4	WATTSTOPPER PW-100	PIR	WALL	AUTO	AUTO	NO	15 MINS	NO	
OS5	WATTSTOPPER DT-305	DUAL TECH	CEILING	AUTO	AUTO	NO	15 MINS	NO	

GENERAL NOTES:
 A. PROVIDE POWER PACKS AS REQUIRED.
 B. IF ROOM HAS MORE THAN ONE SENSOR, INTERCONNECT ALL SENSORS UNLESS OTHERWISE NOTED.
 C. PROVIDE WATTSTOPPER MODEL SHOWN IN SCHEDULE OR APPROVED EQUAL.

SCHEDULE NOTES:
 NOTES

Sheriff's Patrol Headquarters
 3206 South 16th Street
 Eldridge, Iowa, USA 52748

Scott County
 600 West Fourth Street
 Davenport, Iowa

WOLD
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 www.woldae.com

110 North Brockway St
 Two Hundred Twenty
 Palatine, IL 60067

tel: 847 241 6100
 fax: 847 241 6135
 mail@woldae.com

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly licensed PROFESSIONAL ENGINEER.

under the laws of the State of IOWA

Bradley R. Johannsen