

Bixby Technical Advisory Committee Meeting Agenda

Dawes Building, Dawes Conference Room – 113 West Dawes, Bixby, Oklahoma

Wednesday, December 6, 2023 | 10:00 A.M.

Technical Advisory Committee Members

David Segala - A.E.P.-P.S.O.
Steve Williams - A.E.P.-P.S.O.
Aaron Smith - A.E.P.-P.S.O.
Brett Ashlock - A.T.&T.
Kevin Bender - A.T.&T.
Kevin Wingard - SDT
Richard Gann - B.T.C. Broadband
Tony Gonzalez - B.T.C. Broadband
Susan Bevard - B.T.C. Broadband
Chad Jones - B.T.C. Broadband
Rob Miller - Bixby Public Schools
Lydia Wilson - Bixby Public Schools
Bea Aamodt - Bixby Public Works Director
Jon Brown - Bixby Assistant Public Works Director
Justin Dowd - Bixby City Engineer
Joey Wiedel - Bixby Development Services Director
Gwen Plante - Bixby Assistant City Planner
Heath Wright - Bixby Utilities & Water
Mike Butler - Bixby Fire Chief
Nicholas Flanary - Bixby Fire Marshal

Richard Hakel - Cox
Loyda Mercado - Cox
Jeannette Davis – Cox
Kristin Short - Cox
Christopher Long - Cox R.O.W. Agent
Marty Lademan - Creek County R.W.D. #2
Cynthia Hubbell - Creek County R.W.D. #2
Katherine Russell - East Central Electric
Ron Wolfe - East Central Electric (E.C.E.)
Jeremy Hendrickson – E.C.E.
Rick Hendrickson – E.C.E.
Steve Whitehouse - O.G. & E.
Dewayne Perry - O.G. & E.
Keith Melson - O.G. & E.
Brandon Rainbolt - O.N.G.
Donald Kafer - O.N.G.
Chris Stobaugh - U.S.P.S. Bixby
Aaron Grodi - Windstream
Joel Ostrenga - Windstream

- 1. Consider and approve minutes for the Technical Advisory Committee meeting dated 12/6/2023.**
- 2. Bixby Site Plan (B.X.S.P.) Number 24.01 Perfect Food and Gas**
Applicant, Yuba R Parajuli, Perfect Food and Gas
Discussion and review of site plan for Perfect Food and Gas.
General Location: East of South Memorial Drive and North of East 161st Street South
- 3. Bixby Site Plan (B.X.S.P.) Number 24.02 Quail Creek Commons Building A**
Applicant, W Design
Discussion and review of site plan for Quail Creek Commons Building A.
General Location: West of South 74th East Avenue and South of East 121st Street South

Agenda | Bixby Technical Advisory Committee | January 3, 2024 | Page 1 of 2

Persons who require a special accommodation to participate in this meeting should contact Gwen Plante, Assistant City Planner, 116 West Needles Avenue, Bixby, Oklahoma, 918-366-4430, or email [Gwen Plante](mailto:GPlante@BixbyOK.gov) (GPlante@BixbyOK.gov) as far in advance as possible and preferably at least 48-hours before the date of the meeting. Persons using a Telecommunications Device for the Deaf (T.D.D.) may contact **Oklahoma Relay** at 1-800-722-0353 and voice calls should be made to 1-800-522-8506 to communicate via telephone with hearing telephone users and vice versa.

4. Bixby Site Plan (B.X.S.P.) Number 24.03 Quail Creek Commons Building B

Applicant, W Design

Discussion and review of site plan for Quail Creek Commons Building A.

General Location: West of South 74th East Avenue and South of East 121st Street South

5. Dawes Storm Sewer: Parker to Stanley

Applicant, City of Bixby

Discussion and review of City project, Dawes Storm Sewer: Parker to Stanley

General Location: East Dawes Avenue from North Stanley Street to North Riverview Drive

6. Adjourn

This Notice and Agenda was posted on the bulletin board on or before 10:00 a.m., January 2nd, 2024, at City Hall, 116 West Needles, Bixby, Oklahoma.

Respectfully submitted,
Justin Dowd, City Engineer

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GENERAL NOTES

DETAILED SITE PLAN

- A. ALL DIMENSIONS SHOWN ARE MEASURED FROM PROPERTY LINE, FACE OF CURB, OR FACE OF BUILDING, UNLESS NOTED OTHERWISE.
- B. CONTRACTOR SHALL MAINTAIN A TWO (2) FOOT SEPARATION BETWEEN GAS LINE CONDUITS AND ALL OTHER CONDUIT LINES.
- C. THE CONTRACTOR IS RESPONSIBLE FOR THE INSTALLATION OF ALL CONDUITS PRIOR TO THE THE INSTALLATION OF PAVING.
- D. BUILDINGS SHOWN ON THIS PLAN ARE REPRESENTATIVE ONLY AND NOT FOR CONSTRUCTION, REFER TO ARCHITECTURAL DRAWINGS.
- E. CONTRACTOR TO COORDINATE ALL UTILITY SERVICES WITH THEIR RESPECTIVE SUPPLIER.
- F. ALL UTILITY SERVICE CONNECTIONS SHALL BE INSTALLED AS REQUIRED PER RESPECTIVE CITY CODES AND SPECIFICATIONS.
- G. ACCESSIBLE PARKING STALL SIGNS SHALL BE CENTERED ON THEIR RESPECTIVE PARKING STALL. SIGNS SHALL BEAR THE INTERNATIONAL SYMBOL OF ACCESSIBILITY AND ONE SIGN SHALL ALSO BE LABELED VAN ACCESSIBLE. BOTTOM OF SIGNS SHALL BE A MINIMUM OF 60" AND A MAXIMUM OF 72" ABOVE THE SIDEWALK.
- H. THE CONTRACTOR SHALL NOTIFY THE CITY PUBLIC WORKS DEPARTMENT AT LEAST 24 HOURS PRIOR TO THE START OF CONSTRUCTION.
- I. THE CONTRACTOR IS RESPONSIBLE FOR CONSTRUCTION STAKING.
- J. NO LIGHT POLE SITE LIGHTING. ALL PARKING LIGHTING IS PROVIDED FROM BUILDING MOUNTED SHIELDED LIGHTING FIXTURES.
- K. PATCH AND REPAIR ANY EXISTING SITE ELEMENTS (SOIL, LANDSCAPE, PAVING, ETC.) DISTURBED DURING THE CONSTRUCTION PROCESS.
- L. CONTRACTOR TO ENSURE AREAS OF NEW PAVING ALONG THE EGRESS ROUTE ADJOINING EXISTING HORIZONTAL SURFACES SHALL BE FLUSH IN NATURE WITH LESS THAN 1/4" VERTICAL RISE.
- M. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE PRIOR TO BIDDING TO INSPECT THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AFFECTING AREAS OF NEW CONSTRUCTION. THE CONTRACTOR SHALL NOT DISPUTE OR ASSERT THAT THERE IS ANY MISUNDERSTANDING IN REGARDS TO LOCATION, EXTENT, NATURE OR AMOUNT OF WORK TO BE PERFORMED UNDER THIS CONTRACT DUE TO THE CONTRACTOR'S FAILURE TO PERFORM THESE DUTIES
- N. THE CONTRACTOR IS RESPONSIBLE FOR LOCATING AND VERIFYING ALL EXISTING UNDERGROUND UTILITIES IN ALL AREAS AFFECTED BY NEW WORK PRIOR TO COMMENCEMENT OF ANY EXCAVATION. EXISTING UTILITIES SHOWN ON THE DRAWINGS ARE APPROXIMATE ROUTING LOCATIONS AS BEST DETERMINED FROM EXISTING SURVEY BUT SHOULD NOT BE CONSTRUED TO REPRESENT ALL EXISTING UTILITIES
- O. FIELD VERIFY IS DEFINED AS FOLLOWS: THE GENERAL CONTRACTOR IS REQUIRED TO FIELD SURVEY THE NOTED CONDITION AND/OR DIMENSION PRIOR TO CONSTRUCTION OR PREPARATION OF SUBMITTAL SHOP DRAWINGS AND INTEGRATE FIELD SURVEY INFORMATION INTO THE CONSTRUCTION

KEYNOTES

SITE PLAN

1. NEW 5'-0" SIDEWALK. MAXIMUM CROSS SLOPE NOT TO EXCEED 2%, TYPICAL
2. NEW LANDSCAPE PLANTER BED; RE: CIVIL LANDSCAPE DRAWINGS, SHEET C111
3. NEW ACCESSIBLE RAMP 1:12 MAX.
4. ACCESSIBLE PARKING STALL

SITE DATA: PUD 76

QUAIL CREEK COMMONS: LOT 1 BLK 1
DEVELOPMENT AREA H

LAND AREA SUMMARY

LOT 1 LAND AREA	134,587 SF (3.09 ACRES)
LANDSCAPE AREA REQUIRED	13,459 SF (10%)
LANDSCAPE AREA PROVIDED	15,643 SF (11.6%)

SITE DATA:

ZONING	COMMERCIAL GENERAL (CG)
FIRST FLOOR BUILDING AREA:	3,480 SF
BUILDING HEIGHT PERMITTED:	40'
TALLEST BUILDING HEIGHT PROPOSED:	23'-0" TOP OF RIDGE

PARKING SPACE REQUIREMENT:

OFFICE / RATIO PER USE:	1/350
NUMBER OF SPACES REQUIRED:	10
NUMBER OF EXISTING SPACES PROVIDED:	15 (PLUS SHARED PARKING DEVELOPMENT)

ACCESSIBLE SPACES REQUIRED:	1 VAN / 1 STANDARD
ACCESSIBLE SPACES PROVIDED:	2 (ALL CLASSIFY AS VAN)

IMPERVIOUS AREA:

TOTAL SITE AREA (LOT 11)	134,587 SF (3.09 AC)
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IMPERVIOUS AREA:	114,716 SF (2.63 AC)
PERVIOUS AREA:	19,871 SF (0.46 AC)

SETBACKS:

REQUIRED:	
FROM NON-ARTERIAL STREET ROW:	25'
FROM RESIDENTIAL DEVELOPMENT AREA:	50'
FROM OTHER BOUNDARY:	20'

LEGAL DESCRIPTION:

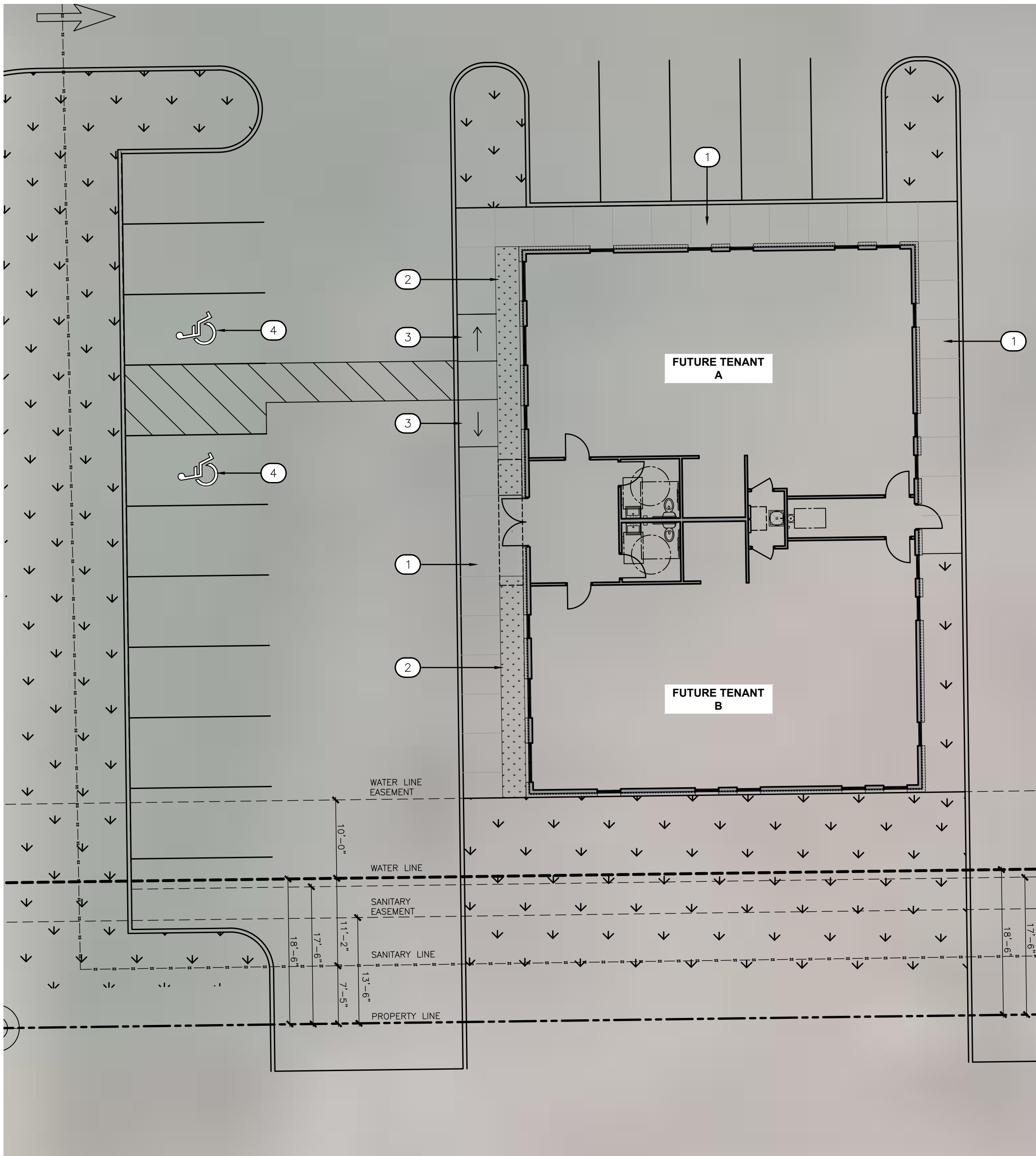
LOT ONE (1), BLOCK ONE (1), QUAIL CREEK COMMONS, A SUBDIVISION WITHIN THE CITY OF BIXBY, TULSA COUNTY, STATE OF OKLAHOMA RECORDED AS PLAT #6819

EXTERIOR LIGHTING:

NO POLE LIGHTS PROVIDED.

SITE PLAN LEGEND

	EXISTING LANDSCAPED AREA (GRASS)
	NEW LANDSCAPED PLANTER BED; RE: CIVIL LANDSCAPE PLAN, SHEET C111
	NEW PAINTED ACCESSIBLE TRAVEL PATH STRIPING

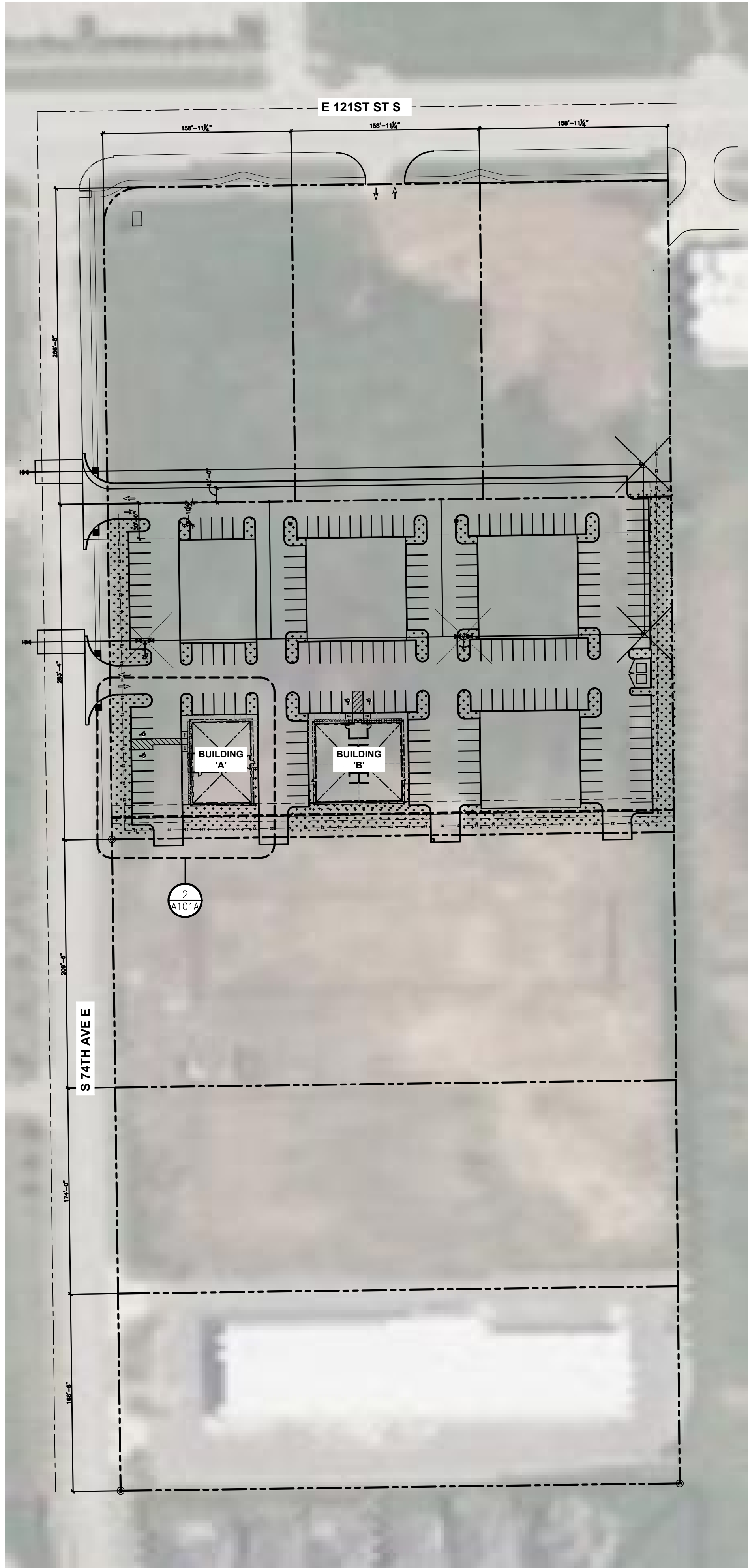


2 ENLARGED SITE PLAN

SCALE: 0 20'-0" 40'-0"
SCALE: 3/32"=1'-0"

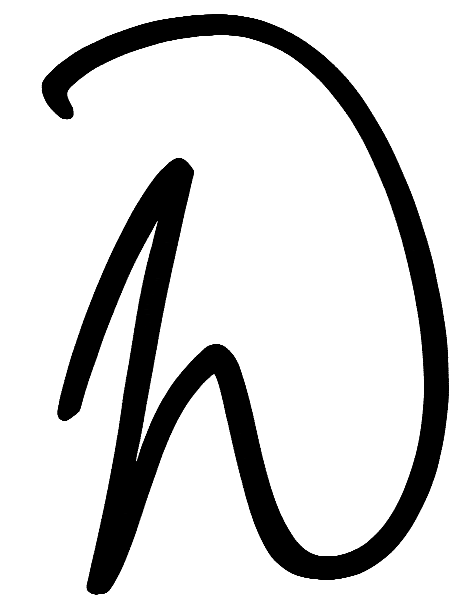


NOTE: GC TO FIELD VERIFY EXISTING ACCESSIBLE PARKING AND AISLE GRADING SLOPE DOES NOT EXCEED 1:48 SLOPE



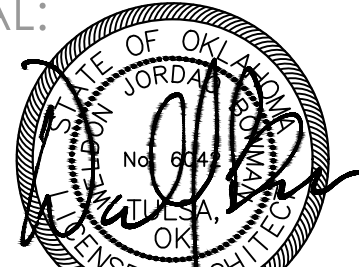
1 OVERALL SITE PLAN

SCALE: 0 70'-0" 140'-0"
SCALE: 1/64"=1'-0"



wdesign
ARCHITECTURE & INTERIORS
608 E. 3rd Street
Tulsa, OK 74120
Office: 918.794.6616
Fax: 918.794.6602
www.wdesignsite.com

SEAL:



12/05/2023
WELDON BOWMAN, AIA
OK LICENSE NO. 6042
CA# 02461 EXPIRES 06/30/2025

PROJECT:

QUAIL CREEK
COMMONS
BUILDING A

PROJECT #
18133

E. 121ST STREET S.
BIXBY, OK
74011

CONSULTANT:

REVISIONS:

ISSUE DATE:

12.05.2023

SHEET NAME:
ARCHITECTURAL
SITE PLAN
BUILDING A

SHEET #:

A101A

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4. ACCESSIBLE PARKING STALL



NOTE: NOT ALL KEYNOTES MAY BE USED ON THIS SHEET.

SITE DATA: PUD 76

QUAIL CREEK COMMONS: LOT 1 BLK 1
DEVELOPMENT AREA H

LAND AREA SUMMARY

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SITE DATA:

ZONING	COMMERCIAL GENERAL (CG)
FIRST FLOOR BUILDING AREA:	4,853 SF
BUILDING HEIGHT PERMITTED:	40'
TALLEST BUILDING HEIGHT PROPOSED:	26'-0" TOP OF RIDGE

PARKING SPACE REQUIREMENT:

OFFICE / RATIO PER USE:	1/350
NUMBER OF SPACES REQUIRED:	14
NUMBER OF EXISTING SPACES PROVIDED:	26 (PLUS SHARED PARKING DEVELOPMENT)

ACCESSIBLE SPACES REQUIRED:	1 VAN / 1 STANDARD
ACCESSIBLE SPACES PROVIDED:	2 (ALL CLASSIFY AS VAN)

IMPERVIOUS AREA:

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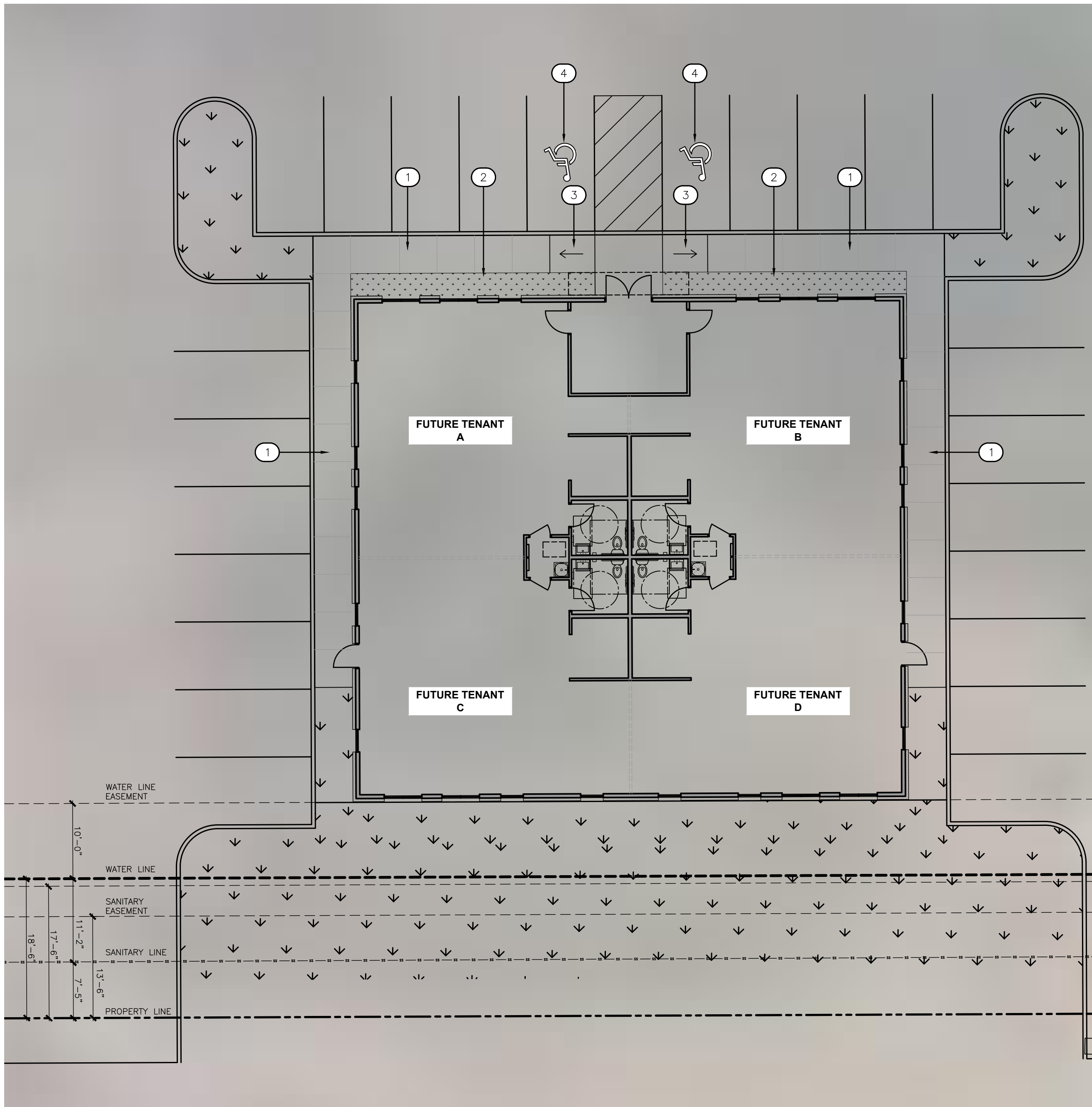
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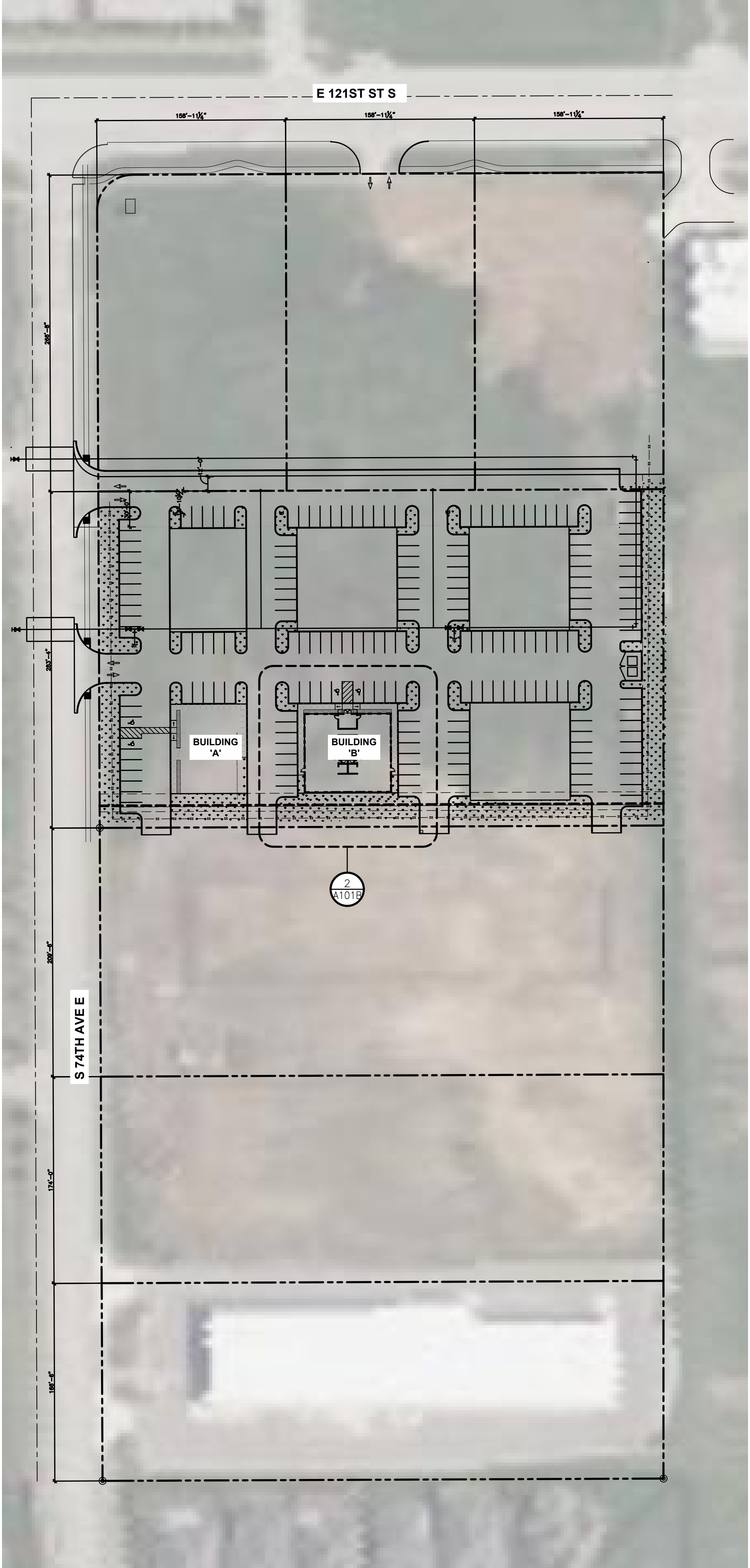


2 ENLARGED SITE PLAN

SCALE: 0 20'-0" 40'-0"
SCALE: 3/32"=1'-0"



NOTE: GC TO FIELD VERIFY EXISTING ACCESSIBLE PARKING AND AISLE GRADING SLOPE DOES NOT EXCEED 1:48 SLOPE



1 OVERALL SITE PLAN

SCALE: 0 70'-0" 140'-0"
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SEAL:



PROJECT:

QUAIL CREEK
COMMONS
BUILDING B

PROJECT #
18133

E. 121ST STREET S.
BIXBY, OK
74011

CONSULTANT:

REVISIONS:

ISSUE DATE:

12.05.2023

SHEET NAME:
ARCHITECTURAL
SITE PLAN
BUILDING B

SHEET #:

A101B

SURVEY DATA

1. THE COORDINATES SHOWN HEREON ARE BASED UPON THE OKLAHOMA STATE COORDINATE SYSTEM, NORTH ZONE 3501, NAD 1983 (1993)
2. THE ELEVATIONS SHOWN HEREON ARE BASED ON NAVD 1988 DATUM.

BEFORE YOU DIG! CALL OKIE 1-800-522-6543



UTILITIES LOCATION SHOWN ON PLAN AND PROFILE WERE OBTAINED FROM INFORMATION PROVIDED BY UTILITY SYSTEM OWNER IN CONJUNCTION WITH EXISTING PHYSICAL FEATURES VISIBLE AT THE TIME OF TOPOGRAPHIC SURVEY. LOCATIONS MUST BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION.

UTILITY CONTACTS

CITY OF BIXBY, OKLAHOMA 116 W NEEDLES P.O. BOX 70 BIXBY, OK 74008 (918) 366-4430	OKLAHOMA NATURAL GAS (GOV'T RELOCATIONS) ATTN.: TIM HELBIG 5848 EAST 15TH STREET TULSA, OK 74112 (918) 831-8387 (918) 729-4681 (CELL)
OKLAHOMA NATURAL GAS (EXISTING CONST.) ATTN.: DUANE COOPER 5848 EAST 15TH STREET TULSA, OK 74112 (918) 645-1953	WINDSTREAM COMMUNICATION ATTN.: JOSEPH MINOR 1814 W TACOMA STREET BROKEN ARROW, OK 74012 (918) 451-3421
COX COMMUNICATIONS ATTN.: CHRIS LONG 11811 E 51ST STREET TULSA, OK 74146 (918) 286-4665 (918) 286-4018 (FAX)	AEP/PSO ATTN.: LONNY HICKS 5223 S GARNETT TULSA, OK 74149 (918) 250-6211 (918) 247-8466 (FAX)

LEGEND

OH	OVERHEAD ELECTRIC
SS	SANITARY SEWER
W	WATERLINE
G	UNDERGROUND GAS
	CONCRETE PAVING
	ASPHALT PAVING

CITY OF BIXBY STANDARD CONSTRUCTION SPECIFICATIONS, AND CURRENT OKLAHOMA STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION, APPROVED BY THE DEPARTMENT OF TRANSPORTATION, SHALL GOVERN ALL CONSTRUCTION.

DAWES STORM SEWER
PARKER TO STANLEY
CDBG FY-2022
PROJECT NO. SD29-2301



LOCATION MAP
SCALE: 1"=500'

SHEET INDEX

CD01	COVER SHEET
CD02	PAY ITEMS, NOTES & CONSTRUCTION DETAILS
CD03	CONSTRUCTION NOTES
CD04	PLAN & PROFILE
CD05	SIDEWALK - PARKER TO RIVERVIEW

ODOT STANDARDS

SSS-1-1	SOLID SLAB SODDING
TFL-1-1	TEMPORARY FIBER LOG
WCR-3-2	WHEELCHAIR RAMPS
TWD-1-1	TACTILE WARNING DEVICES
SMD-3-2	STANDARD MEDIAN DRAINS
MJB-3-2	MANHOLES AND JUNCTION BOXES

CITY OF BIXBY COUNCIL

VICE MAYOR, WARD 1.....	ROBERT FOUNDS
MAYOR, WARD 2.....	BRIAN GUTHRIE
WARD 3.....	KEN HIRSHEY
WARD 4.....	BRAD GIRARD
WARD 5.....	ANDREW REVELIS

BENCH MARK #1
N=349877.62
E=2595909.40
EL=600.61
3/8" IRON PIN SET w/CAP (HARDEN)

BENCH MARK #2
N=349925.52
E=2596276.52
EL=600.21
3/8" IRON PIN SET w/CAP (HARDEN)



CITY OF BIXBY
ENGINEERING
DEPARTMENT
113 W DAWES AVE
BIXBY, OK 74008



SUBMITTAL:	DATE:	PROJECT NO:	DESIGNED BY:	DRAWN BY:	APPROVED BY:	SCALE:	BID SET	REVISION HISTORY			DATE
								NO.	DESCRIPTION		
	12/18/2023	SD29-2301	J.S.D.	J.S.D.	J.S.D.	AS SHOWN					

DAWES STORM SEWER
PARKER TO STANLEY
CDBG FY-2022

SHEET NAME
TITLE SHEET

SHEET
CD01

PAY ITEM NOTES:

1. THIS QUANTITY INCLUDES AN ADDITIONAL 10% ABOVE PLAN QUANTITY FOR UNDERCUTTING OF UNSUITABLE SUBGRADE MATERIAL OR ADDITIONAL PATCHING AS DIRECTED BY THE ENGINEER.
2. TYPE A AGG BASE WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 90% OF THE PATCHING. QUICK SET FLOWABLE FILL WAS ESTIMATED TO BE USED AS THE BASE MATERIAL FOR 10% OF THE PATCHING. ACTUAL QUANTITIES TO BE DETERMINED BY THE ENGINEER.
3. INCLUDES COMPACTION OF AGGREGATE TO 98% AASHTO T180 MODIFIED PROCTOR.
4. SEPARATOR FABRIC SHALL BE USED AT ALL PAVEMENT PATCHES AND RECONSTRUCTION SECTIONS. THE SEPARATOR FABRIC SHALL BE CUT AND OVERLAPPED A MINIMUM OF 2- FEET AT ALL EDGES OF THE REPAIR.
5. THIS PAY ITEM INCLUDES THE FOLLOWING:

A. TYPE S3 ASPHALT CONCRETE OR PC CONCRETE COMPLETE AND IN PLACE PER DETAIL.

B. SEALING OF EDGES AND TACK COAT.

DOES NOT INCLUDE:

- A. UNCLASSIFIED EXCAVATION
- B. SUBGRADE METHOD B (SY)
- C. SEPARATOR FABRIC (SY)
- D. AGGREGATE BASE (TYPE A)
- E. ASPHALT CONCRETE LEVELING OR SURFACE COURSE
6. WASTE MATERIAL TO BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE IN A MANNER APPROVED BY THE ENGINEER.
7. EROSION PROTECTION SHALL BE PLACED AROUND DRAINAGE INLETS AS REQUIRED TO PREVENT ENTRANCE OF EROSION MATERIAL. EROSION PROTECTION SHALL BE PLACED AS NECESSARY TO PREVENT EROSION WASH TO ADJACENT PROPERTY. ALL EROSION PROTECTION INSTALLED MUST BE MAINTAINED BY THE CONTRACTOR FOR THE DURATION OF THE PROJECT. EROSION PROTECTION SHALL BE REMOVED AT THE END OF THE PROJECT AS DIRECTED BY THE ENGINEER. COST TO BE INCLUDED IN PRICE BID. THE PRICE INCLUDES THE COST OF SEDIMENT REMOVAL.
8. THE PAY ITEM FOR SOLID SLAB SODDING INCLUDES THE PLACEMENT AND COMPACTION OF SUITABLE BACKFILL AND SOD AT EXISTING GRASS AREAS WHICH MAY BE DAMAGED DURING CONSTRUCTION OF CURBS, SIDEWALKS, DRIVEWAYS, AND OTHER MISCELLANEOUS ITEMS. THE QUANTITIES ARE BASED ON UTILIZING A 3- FEET WIDE STRIP IN THESE AREAS. THE SOD SHALL BE OF LIKE KIND TO THE EXISTING SOD. THE CONTRACTOR WILL BE RESPONSIBLE FOR THE REPAIR OR REPLACEMENT OF DAMAGE TO EXISTING GRASS THAT EXCEEDS THESE LIMITS.
9. PAY ITEM INCLUDES ALL MOWING WITHIN THE RIGHT-OF-WAY AS DIRECTED DURING CONSTRUCTION.
10. THE COST OF WATERING AND FERTILIZING SHALL BE INCLUDED. FERTILIZERS SHALL BE 10-20-10 AND SHALL BE APPLIED AT THE RATE OF 1.5 POUNDS PER 10 SQUARE YARDS. FERTILIZER SHALL BE APPLIED PER SECTION 230.04H OF ODOT STANDARD SPECIFICATIONS. WATERING SHALL BE APPLIED AS NECESSARY UNTIL VEGETATION IS ESTABLISHED OR UNTIL THE WORK IS ACCEPTED AS COMPLETE.
11. THE COST OF TACK COAT, EDGE JOINT SEAL MATERIAL AND SCREENINGS FOR BLOTTING, AND ALL LABOR ASSOCIATED WITH THESE ITEMS, SHALL BE INCLUDED IN ASPHALT CONCRETE.
12. ESTIMATED AT 112 POUNDS PER 1-INCH THICK.
13. ODOT PAY FACTOR FOR AVERAGE LOT DENSITY SHALL NOT BE USED FOR THIS PROJECT. FAILURE TO REACH AVERAGE LOT DENSITY OF 92-95 PERCENT WILL RESULT IN REJECTION OF WORK.
14. LOCATIONS TO BE DETERMINED IN THE FIELD AND WORK TO BE PERFORMED AT THE DIRECTION OF THE FIELD ENGINEER. QUANTITY IS ESTIMATED AND MAY BE OMITTED IN ITS ENTIRETY.
15. ALL SAW CUTTING AND REMOVAL SHALL BE INCLUDED IN THE COST OF THE ITEM TO BE ADJUSTED, REMOVED, REPAIRED, OR REPLACED.
16. QUICK SET FLOWABLE FILL TO BE USED TO BACKFILL AROUND THE STREET CURB INLETS AND PIPES AS DIRECTED BY THE ENGINEER.
17. ALL INLETS COMPLETE IN PLACE SHALL BE CAST IN PLACE CONCRETE OR PRECAST CONCRETE. NO BRICK INLETS SHALL BE ALLOWED. THIS PAY ITEM INCLUDES INLET FRAME, GRADE, HOOD, AND CONCRETE.
18. NO MASONRY STRUCTURES SHALL BE CONSTRUCTED WITHIN THE RIGHT-OF-WAY.
19. ADDITIONAL DEPTH IN INLET SHALL BE MEASURED AND PAID FOR ALL INLETS EXCEEDING 3.71 VERTICAL FEET CALCULATED FROM THE CENTER ELEVATION OF THE LOWEST CAST IRON CURB TO THE FLOWLINE OF THE OUTLET PIPE.
20. REFLECTOR SHEETING ON SIGNS AND BARRICADES SHALL BE OF A CUBIC PRISMATIC TYPE AND SHALL BE THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE IX RETROREFLECTIVE SHEETING. REFLECTORIZED SHEETING ON DRUMS AND TUBE CHANNELIZERS SHALL BE OF A HIGH-INTENSITY TYPE AND SHALL MEET THE SPECIFICATIONS ESTABLISHED FOR ASTM D 4956-01 TYPE III RETROREFLECTIVE SHEETING.
21. IF WARNING LIGHTS ARE USED ON TRAFFIC CONTROL DEVICES, TYPE A LIGHTS SHALL ONLY BE USED ON DEVICES WARNING OF UNEXPECTED HAZARDS, AND SHALL NOT BE USED FOR DELINEATION OF THE TRAVELED WAY. ONLY TYPE C WARNING LIGHTS SHALL BE USED FOR DELINEATION OF THE TRAVELED WAY, AND TYPE C LIGHTS SHALL NOT BE USED FOR ANY OTHER PURPOSE.

22. THE CONTRACTOR SAHLL BE PAID FOR UNCLASSIFIED EXCAVATION ON THE BASIS OF PLAN QUANTITY. ANY ADDITIONAL EXCAVATION REQUIRED OR OVERRUN OF PLAN QUANTITY WILL BE PAID FOR ON THE BASIS OF UNIT PRICE BID FOR THE ITEM. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE SURVEY TO VERIFY ANY ADDITIONAL QUANTITIES.
23. PG 70-28 OR PG 76-28 OK MAY BE DESIRABLE IN HIGH VOLUME ARES WHERE SLOW, STANDING, OR TURNING TRAFFIC OCCURS, SUCH AS URBAN INTERSECTIONS OR OFF RAMPS. OFF RAMPS SHOULD AT LEAST USE THE SAME BINDER AS THE MAINLINE.

A HIGHER GRADE OF ASPHALT BINDER THAN INDICATED ON THE PLANS MAY BE USED, BUT AT NO ADDITIONAL COST TO THE CITY

BINDER GRADE MESALS ADT NOTES

PG 64-22 OK < 3 < 5,000
USE WHEN MORE THAN 4-6 INCHES BELOW THE SURFACE. ALSO USE FOR SHOULDERS, DRIVEWAYS, BELOW PCC, AND TEMPORARY CONSTRUCTION.

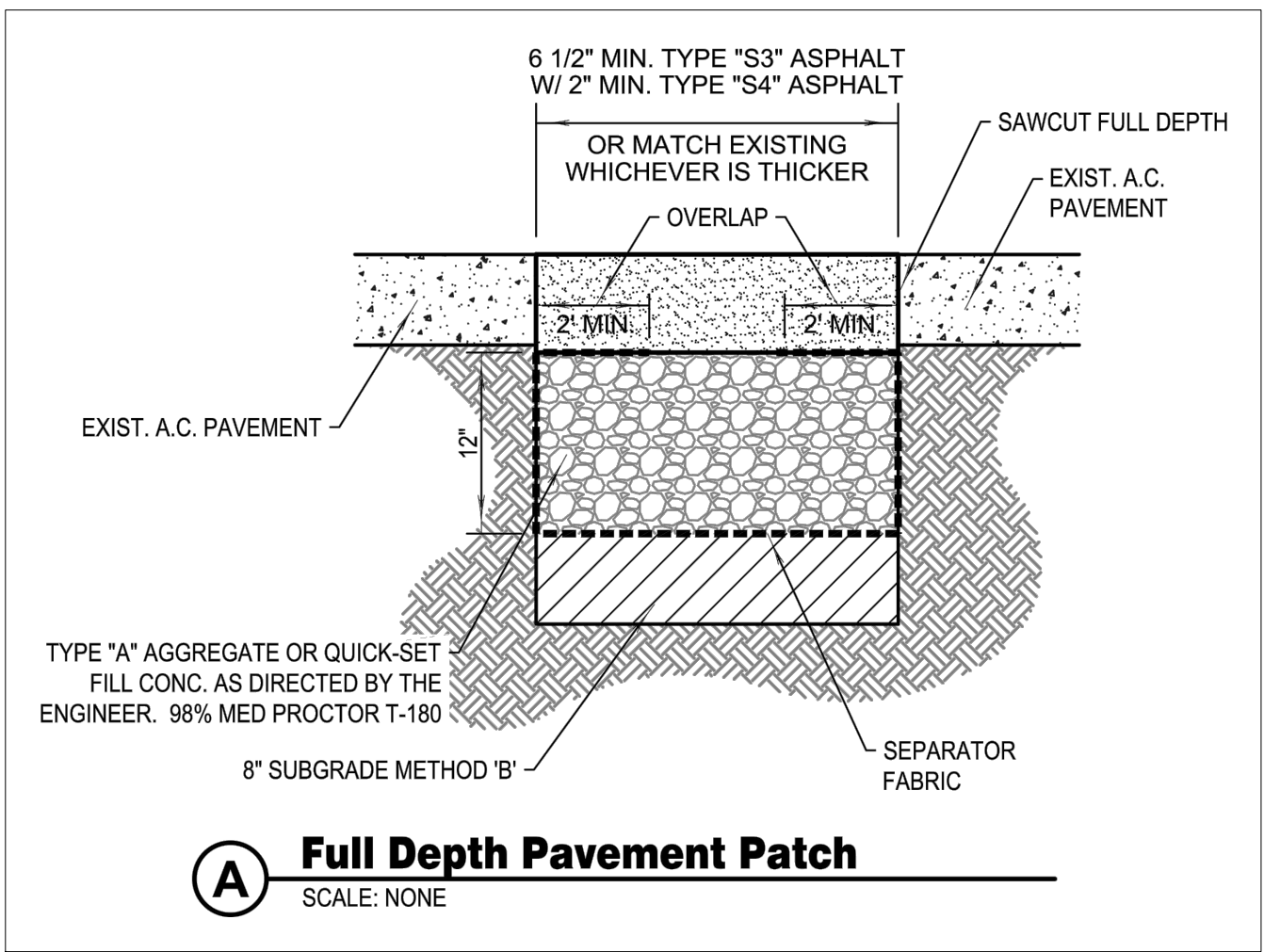
PG 70-28 OK < 10 < 10,000
USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES

PG 76-28 OK >= 10 >= 10,000
USE ONLY IN THE TOP 4-6 INCHES FOR DRIVING LANES

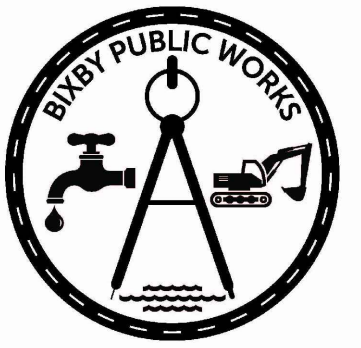
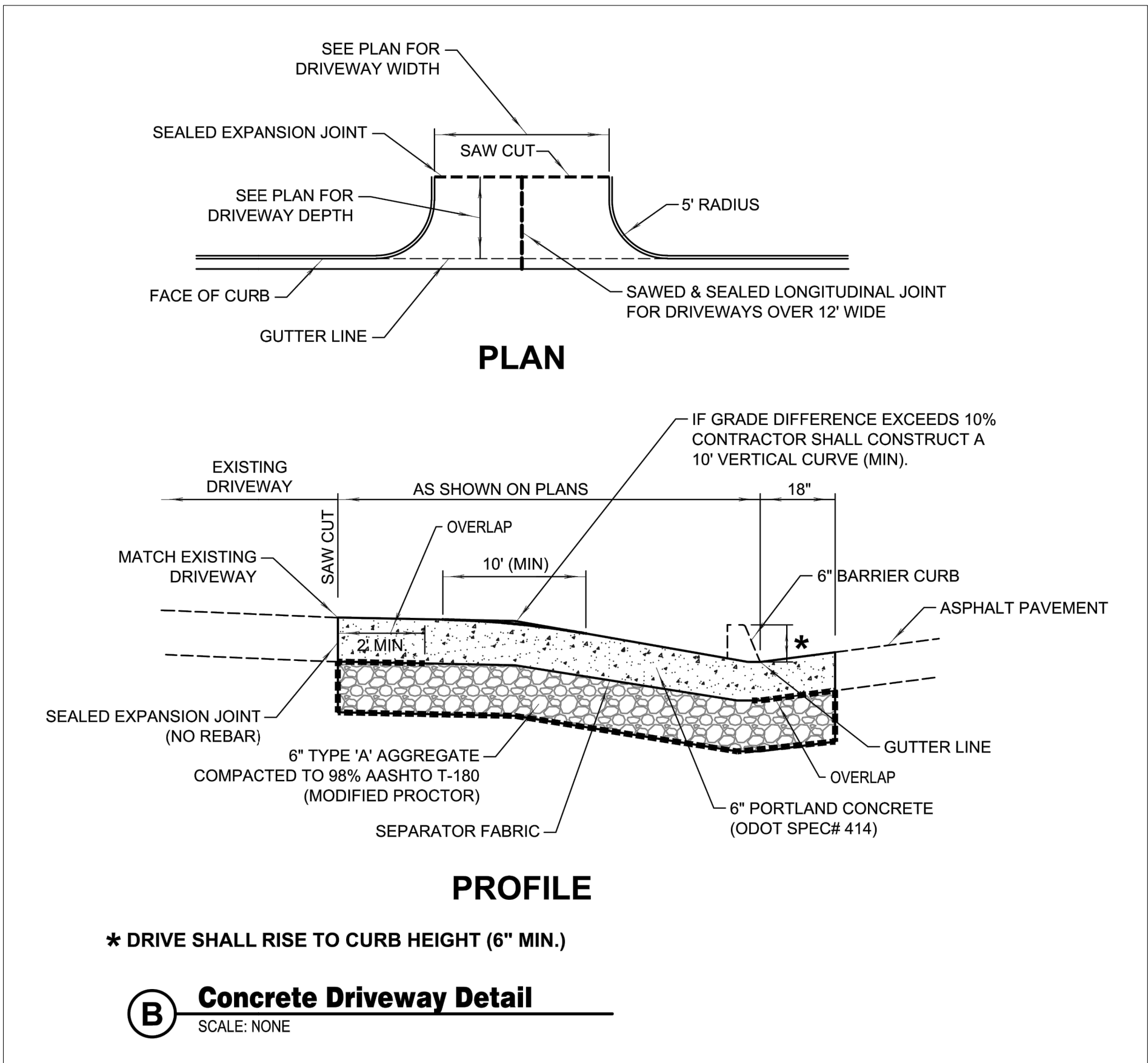
PG 76-28 E - -
CONTACT ODOT MATERIALS DIVISION FOR RECOMMENDED USE.

USE ADT ONLY WHEN ESAL COMPUTATIONAL DATA IS NOT AVAILABLE. CALCULATE THE DESIGN ESALS BASED ON 20 YEARS.

24. MOBILIZATION FOR THE TOTAL PROJECT IS INCLUDED IN THIS PAY ITEM. THE MAXIMUM ALLOWABLE AMOUNT WILL BE IN ACCORDANCE WITH THE ODOT STANDARD SPECIFICATION TABLE 641:1
25. WATER SERVICE CONNECTIONS SHALL INCLUDE COST OF MATERIAL, LABOR, AND EQUIPMENT TO REMOVE AND INSTALL SADDLES, SERVICE CLAMPS, CORP STOPS, BENDS, 3-PART UNIONS, COUPLINGS, SETTERS, AND ANY OTHER INCIDENTALS REQUIRED FOR A COMPLETE WATER SERVICE CONNECTION.



PAY ITEMS				
ITEM	DESCRIPTION	PAY ITEM NOTE	UNIT	QUANTITY
1	CLEARING AND GRUBBING		LS	1
2	UNCLASSIFIED EXCAVATION	1,6,22	CY	100
3	EROSION CONTROL	7	LS	1
4	SOLID SLAB SODDING	8,9,10	SY	540
5	TYPE 'A' AGGREGATE BASE	1,2,3	SY	100
6	SUBGRADE METHOD B (8-INCHES)	1	SY	100
7	SEPARATOR FABRIC	1,4	SY	100
8	SUPERPAVE, TYPE S3 (PG 64-22 OK)	11,12,13,23	TON	20
9	SUPERPAVE, TYPE S4 (PG 64-22 OK) INSOLUBLE	11,12,13,23	TON	20
10	CONCRETE DRIVEWAY		SY	85
11	6' X 7' JUNCTION BOX WITH SMD TYPE 1 PEDESTRIAN GRATE, COMPLETE-IN-PLACE	16,17,18	EA	1
12	6' X 6' JUNCTION BOX WITH SMD TYPE 1 PEDESTRIAN GRATE, COMPLETE-IN-PLACE	16,17,18	EA	1
13	RESET DOMESTIC WATER SERVICE, COMPLETE IN PLACE	25	EA	1
14	RCP, 48-INCH ROUND, COMPLETE IN PLACE	16	LF	420
15	REMOVAL OF DRIVEWAY	6,15	SY	85
16	REMOVAL OF CONCRETE/ASPHALT PAVING	6,15	SY	30
17	MOBILIZATION	24	LS	1
18	TRAFFIC CONTROL	20,21	LS	1
19	TYPE I AC PATCH	5,14	SY	30
20	QUICK SET FLOWABLE FILL	14,16	CY	10
21	CONNECT TO EXISTING JUNCTION BOX, COMPLETE-IN-PLACE		EA	1
22	CONCRETE SIDEWALK, COMPLETE-IN-PLACE		SY	410
23	ADA RAMP W/ TACTILE WARNING DEVICE, COMPLETE-IN-PLACE		EA	4
24	RESET TRAFFIC SIGNS		EA	2
25	RESET MAILBOX		EA	5
26	CONSTRUCTION STAKING LEVEL II		LS	1



CITY OF BIXBY
ENGINEERING
DEPARTMENT
113 W DAWES AVE
BIXBY, OK 74008



REVISION HISTORY	NO.	DESCRIPTION	DATE

BID SET	SUBMITTAL:	DATE:	DESIGNED BY:	DRAWN BY:	APPROVED BY:	SCALE:
12/18/2023	SD29-2301	J.S.D.	J.S.D.	J.S.D.	AS SHOWN	

DAWES STORM SEWER
STANLEY TO PARKER
CDBG FY-2022
113 WEST DAWES AVENUE
BIXBY, OKLAHOMA 74008

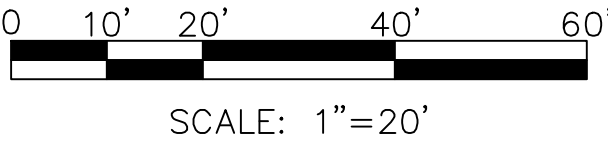
SHEET NAME
PAY ITEMS, NOTES
& CONSTRUCTION
DETAILS

SHEET
CD02



BENCH MARK #1
N=349877.62
E=2595909.40
EL=600.61
3/8" IRON PIN SET w/CAP (HARDEN)

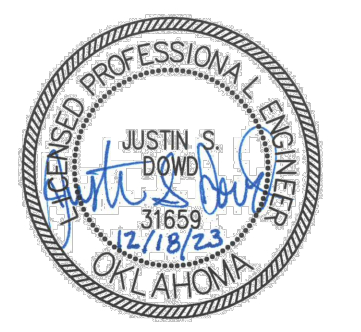
BENCH MARK #2
N=349925.52
E=2596276.52
EL=600.21
3/8" IRON PIN SET w/CAP (HARDEN)



N



CITY OF BIXBY
ENGINEERING
DEPARTMENT
113 W DAWES AVE
BIXBY, OK 74008



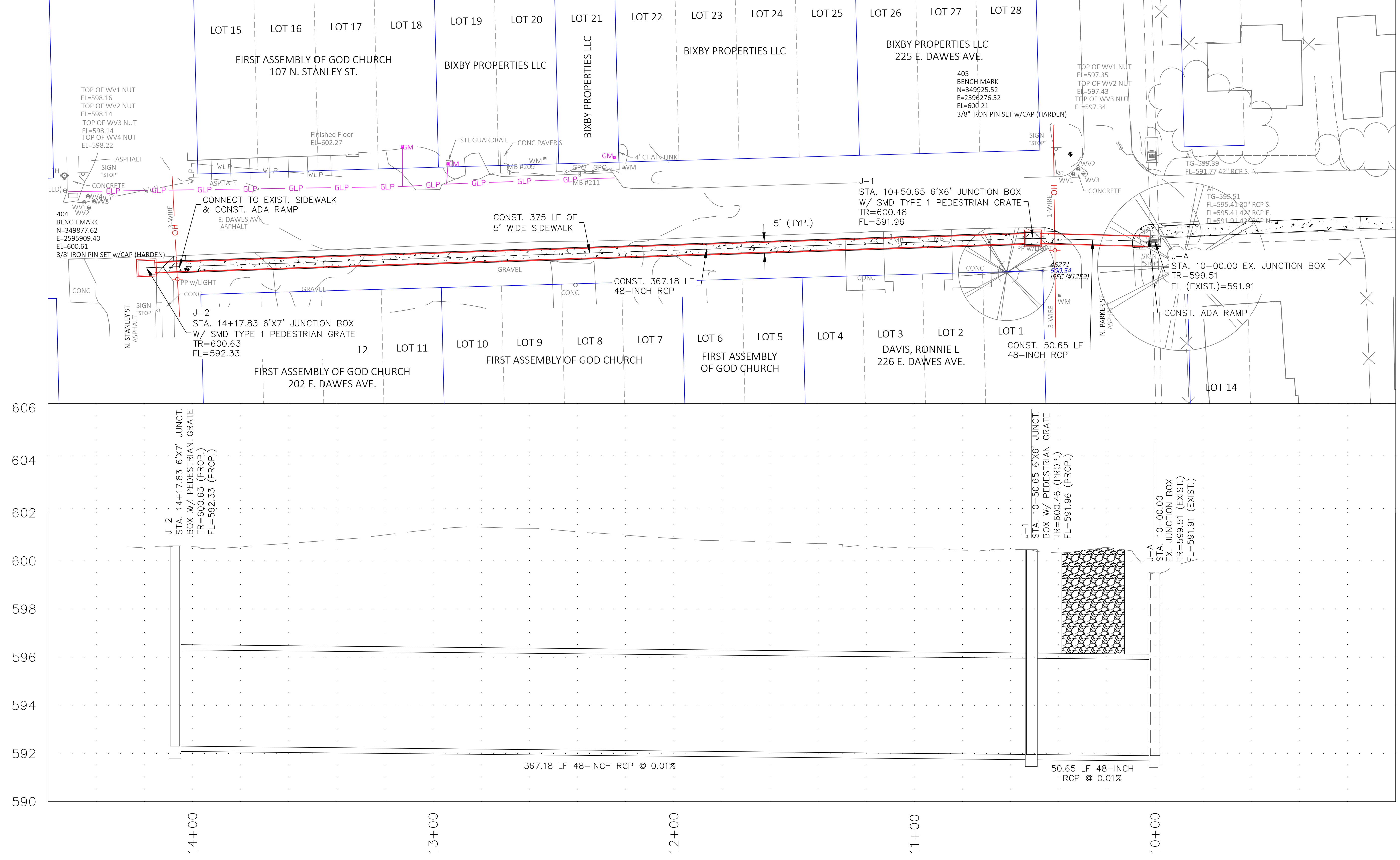
REVISION HISTORY	
NO.	DESCRIPTION

SUBMITTAL:	BID SET
DATE:	12/18/2023
PROJECT NO:	SD29-2301
DESIGNED BY:	J.S.D.
DRAWN BY:	J.S.D.
APPROVED BY:	J.S.D.
SCALE:	1"=2' (VERT.)

DAWES STORM SEWER
STANLEY TO PARKER
CDBG FY-2022

SHEET NAME
PLAN
& PROFILE

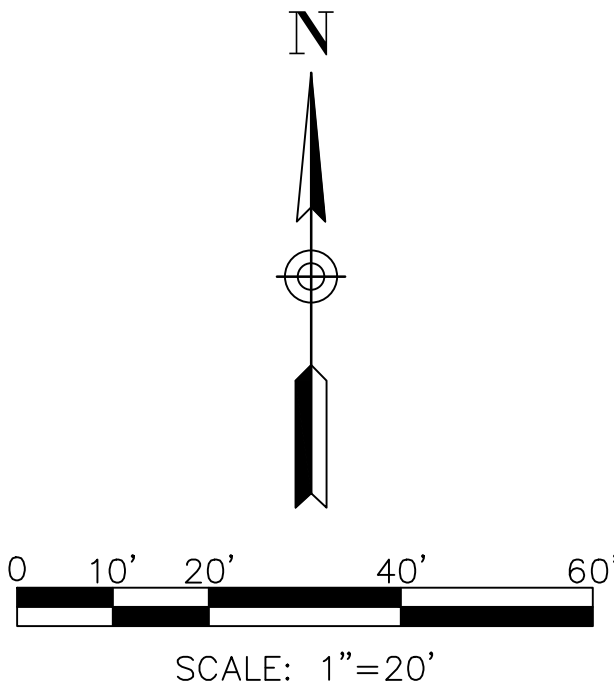
SHEET
CD04



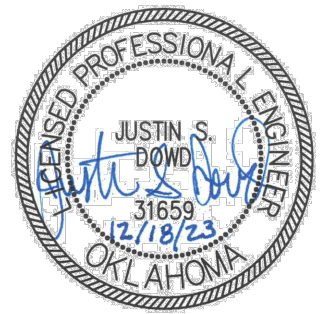


BENCH MARK #1
N=349877.62
E=2595909.40
EL=600.61
3/8" IRON PIN SET w/CAP (HARDEN)

BENCH MARK #2
N=349925.52
E=2596276.52
EL=600.21
3/8" IRON PIN SET w/CAP (HARDEN)



CITY OF BIXBY
ENGINEERING
DEPARTMENT
113 W DAWES AVE
BIXBY, OK 74008



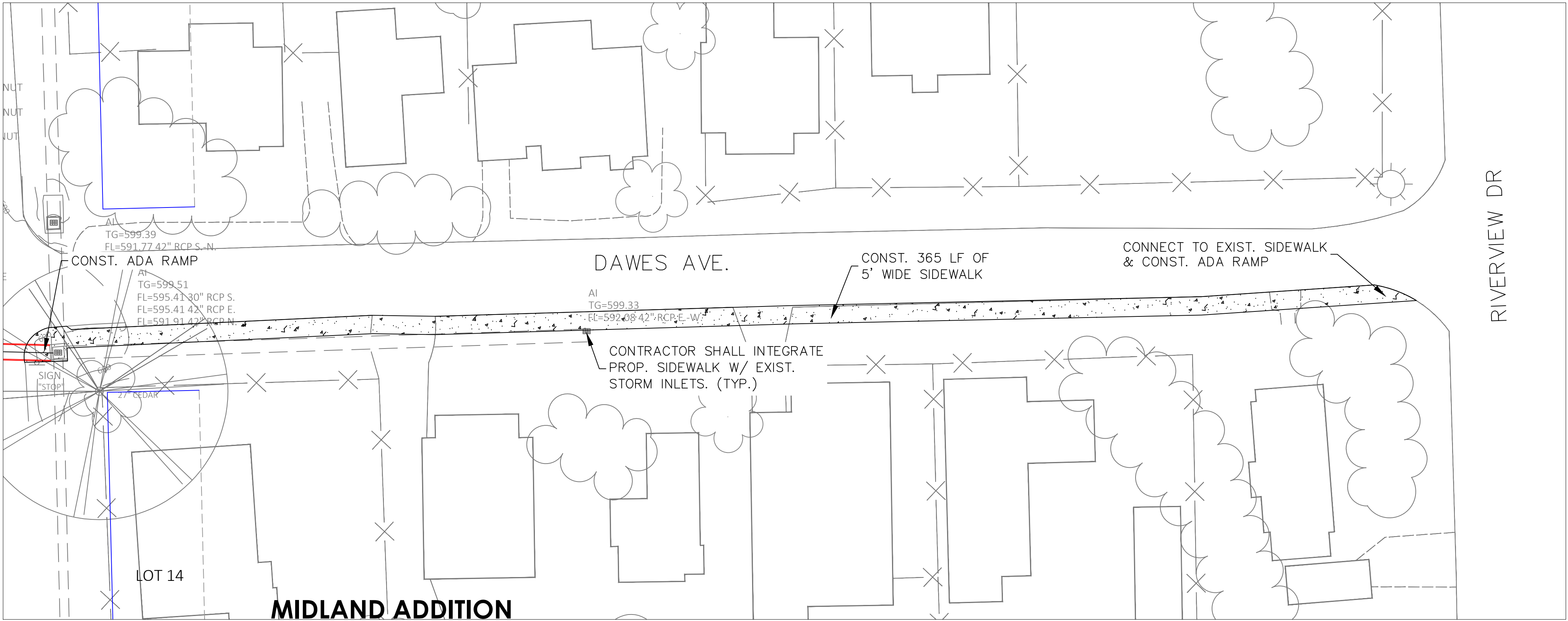
SUBMITTAL:	DATE:	PROJECT NO:	DESIGNED BY:	DRAWN BY:	APPROVED BY:	SCALE:	REVISION HISTORY		
							NO.	DESCRIPTION	DATE

DAWES STORM SEWER
STANLEY TO PARKER
CDBG FY-2022

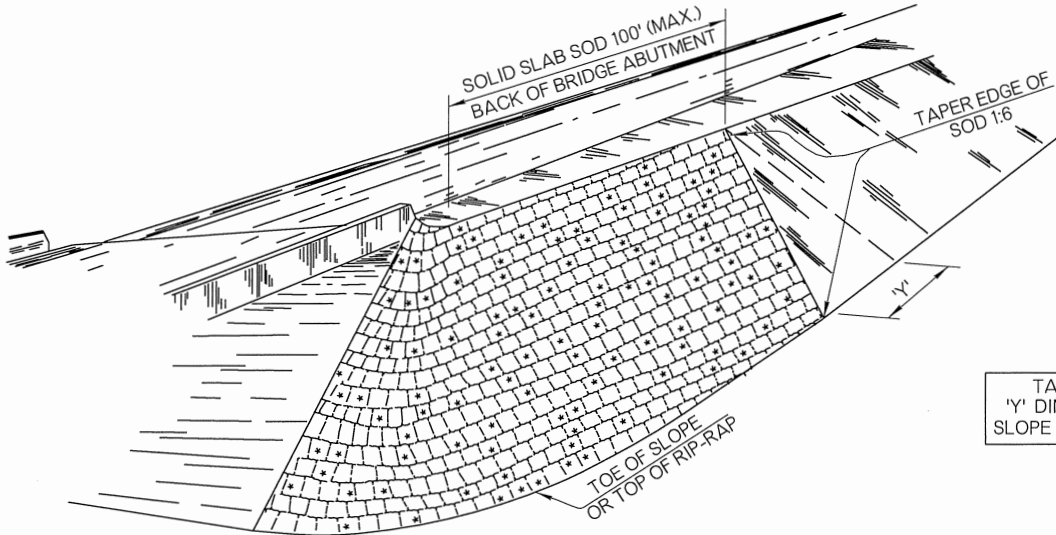
113 WEST DAWES AVENUE
BIXBY, OKLAHOMA 74008

SHEET NAME
SIDEWALK
PARKER TO
RIVERVIEW

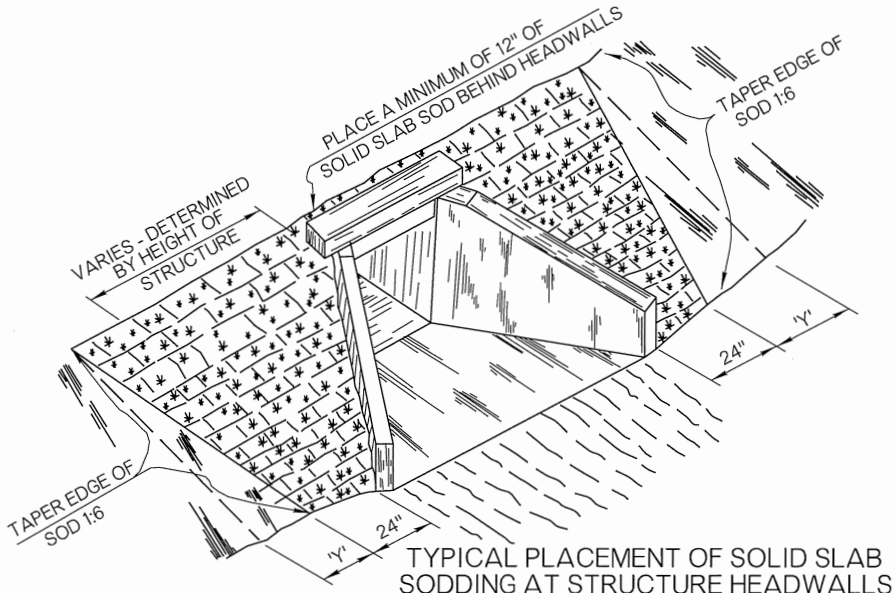
SHEET
CD05



OKLAHOMA DEPARTMENT OF TRANSPORTATION		
STANDARD REVISIONS		
DESCRIPTION	DATE	



TYPICAL PLACEMENT OF SOLID SLAB SODDING ON FILL SLOPES, APPROACHES TO OVERPASSES AND BRIDGES.

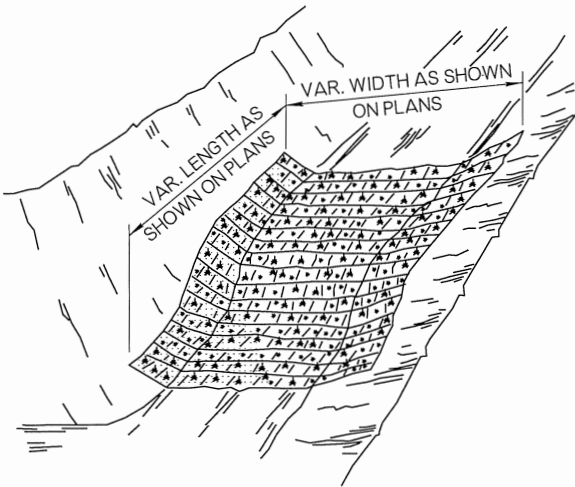


TYPICAL PLACEMENT OF SOLID SLAB SODDING AT STRUCTURE HEADWALLS

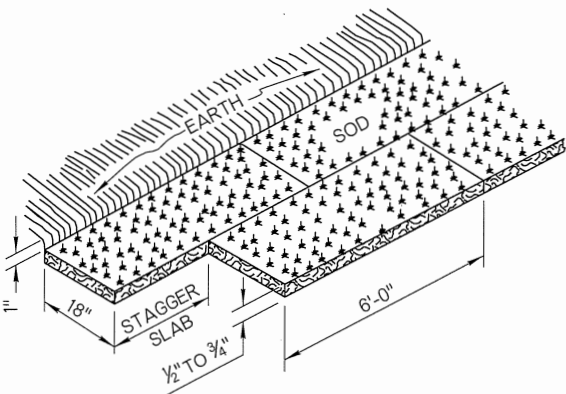
TAPER NOTE
'Y' DIMENSION =
SLOPE LENGTH x 0.17

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
- SOLID SLAB SOD SHALL BE PLACED IN HORIZONTAL ROWS WITH THE LONGEST SIDE OF EACH SLAB RUNNING PARALLEL TO THE ROADWAY, AND THE SLABS IN ALTERNATE ROWS STAGGERED HALF THE LENGTH OF EACH INDIVIDUAL SLAB. ENSURE THE ROWS RUN PARALLEL TO THE ROADWAY.
- SLABS SHALL BE CUT AND HARVESTED WITH A COMMERCIAL SOD CUTTER TO THE DIMENSIONS SHOWN, THEN LOADED, TRANSPORTED AND HANDLED ON PALLETS.
- AFTER PLACEMENT OF SOLID SLAB SOD, EARTH AT THE OUTER EDGES OF THE PLACEMENT SHALL BE BACKFILLED AND LOOSELY COMPACTED TO AT LEAST 1" ABOVE THE TOP OF THE SOLID SLAB SODDING.
- STAKE SOD ON ALL SLOPES 1:2 OR STEEPER, AND ON ANY AREAS THAT ARE IN SUCH CONDITION THAT THERE IS DANGER OF SOD SLIPPING. PERFORM STAKING CONCURRENTLY WITH SOD PLACEMENT AND PRIOR TO TAMPING WITH SOUND WOODEN STAKES APPROXIMATELY 1 INCH SQUARE OR 1 INCH IN DIAMETER AND NOT LESS THAN 12 INCHES IN LENGTH, OR USE METAL STAPLES IN PLACE OF WOODEN STAKES. PLACE, STAKE AND STAPLE THE SOD WHERE NECESSARY, AND AS DETERMINED BY THE ENGINEER.



TYPICAL PLACEMENT OF SOLID SLAB SODDING IN DITCHES



SOLID SLAB SODDING
(MARCH 1 THRU AUGUST 31)

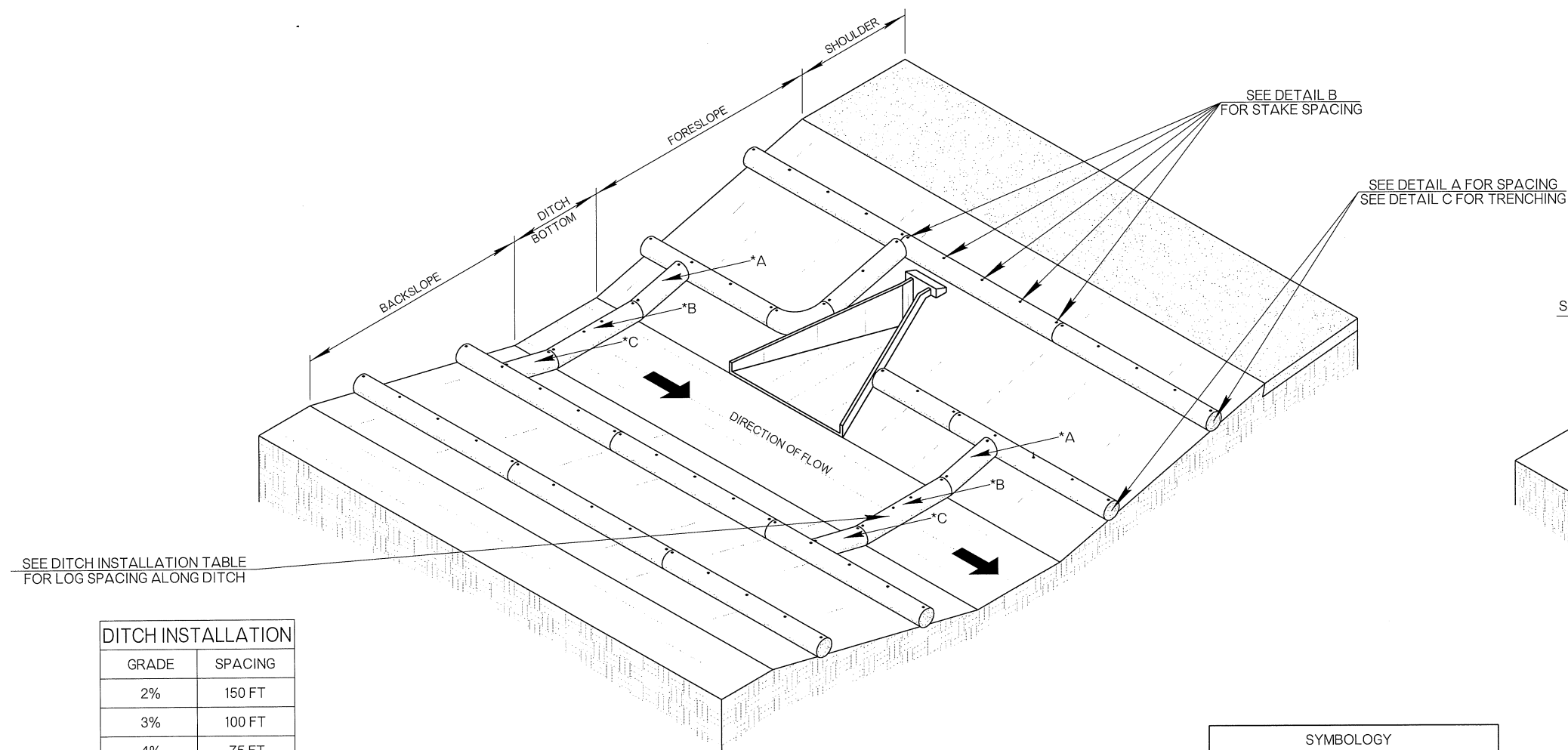
THE PLACEMENT OF SOLID SLAB SOD SHALL BE RESTRICTED TO THE PERIOD FROM MARCH 1 THRU AUGUST 31, UNLESS OTHERWISE APPROVED BY THE ENGINEER.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
230(A)	SOLID SLAB SODDING	SY



APPROVED BY
ROADWAY ENGINEER: *Calvin F. A.* DATE: *07/16/15*
ROADWAY DESIGN DIVISION STANDARD

SOLID SLAB SODDING

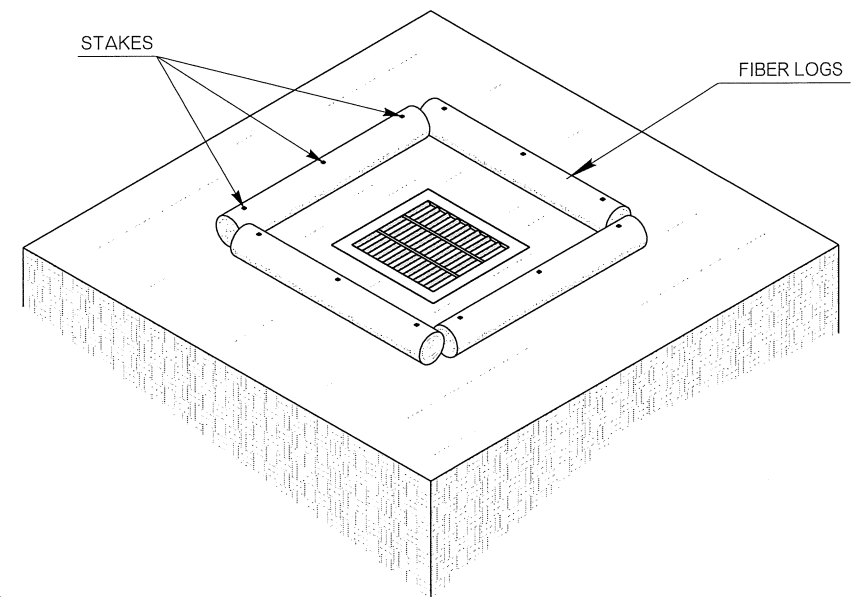
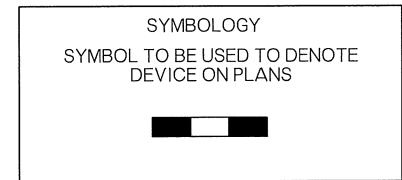


SEE DITCH INSTALLATION TABLE FOR LOG SPACING ALONG DITCH

DITCH INSTALLATION	
GRADE	SPACING
2%	150 FT
3%	100 FT
4%	75 FT
5%	50 FT

* NOTE: POINTS 'A' AND 'C' ARE HIGHER THAN POINT 'B'.

SUGGESTED PLACEMENT AROUND CROSSDRAINS, ON SLOPES, AND ACROSS DITCH BOTTOM.

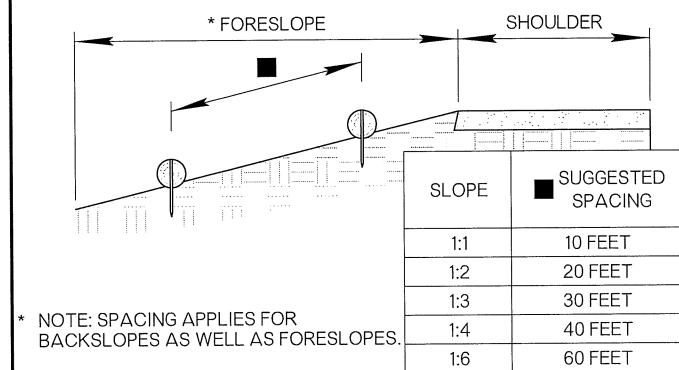


TEMPORARY INLET PROTECTION

GENERAL NOTES

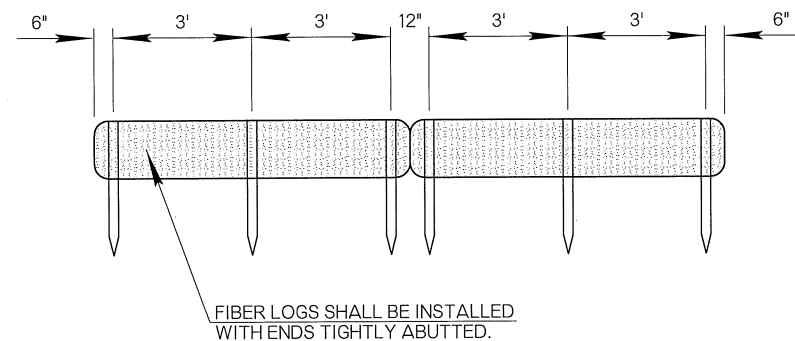
- FIBER LOGS ARE TO BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.
- TRENCHING OF LOGS SHALL BE 2" TO 4" INTO SOIL. BEFORE TRENCHING, REMOVE ALL ROCKS, VEGETATION OR OTHER OBSTRUCTIONS SO THAT THE INSTALLED LOGS WILL HAVE DIRECT CONTACT WITH SOIL. THERE SHALL NOT BE ANY GAPS BETWEEN THE LOGS AND THE SOIL.
- STAKES DRIVEN INTO LOGS SHOULD BE MADE OF WOOD. METAL STAKES MAY BE USED IN PLACE OF WOOD STAKES IN AREAS WHERE WOOD STAKES ARE UNABLE TO BE DRIVEN, OR IF APPROVED BY THE ENGINEER. WOOD STAKES SHALL BE 3/4" BY 3/4" MINIMUM. LENGTH OF STAKES SHALL BE TWICE THE DIAMETER OF THE LOG.
- LOGS MAY BE MADE OF STRAW, EXCELSIOR, COIR OR OTHER SIMILAR MATERIAL AS APPROVED BY THE ENGINEER. FIBER NET SURROUNDING THE LOG MAY BE SYNTHETIC MATERIAL OR A NATURAL FIBER.

BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
221 (K)	TEMPORARY FIBER LOG	LF

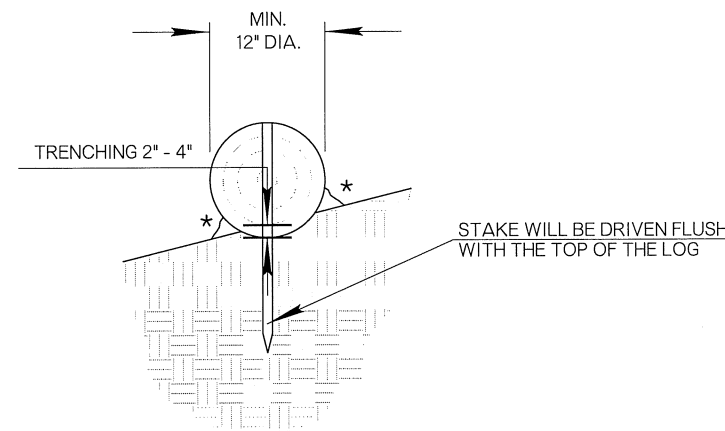


* NOTE: SPACING APPLIES FOR BACKSLOPES AS WELL AS FORESLOPES.

DETAIL A - CROSS SECTION VIEW



DETAIL B - FIBER LOG FRONT VIEW



* AREAS TO BE FILLED WITH COMPACTED SOIL TAKEN FROM THE EXCAVATED TRENCH.

DETAIL C - TRENCHING

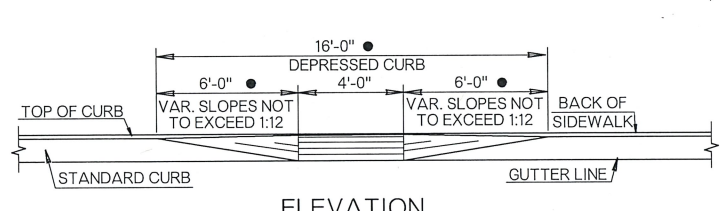
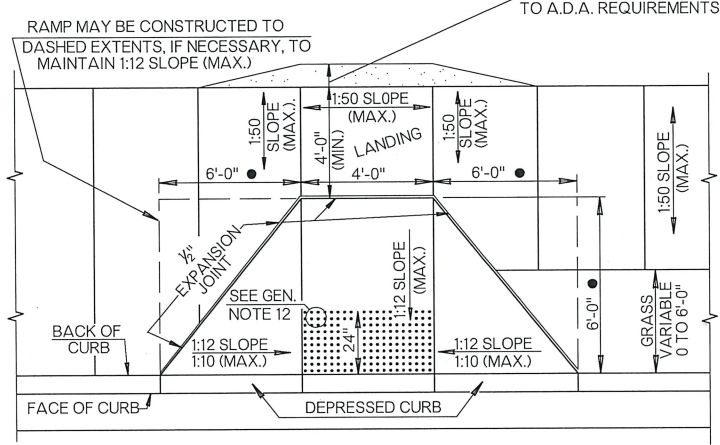
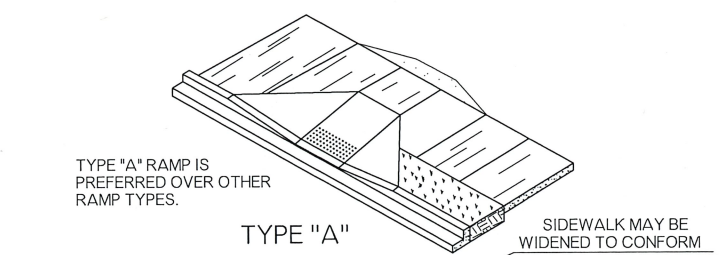
APPROVED BY
ROADWAY ENGINEER *Calder F. A.* DATE *04/14/15*
ROADWAY DESIGN DIVISION STANDARD

TEMPORARY FIBER LOG

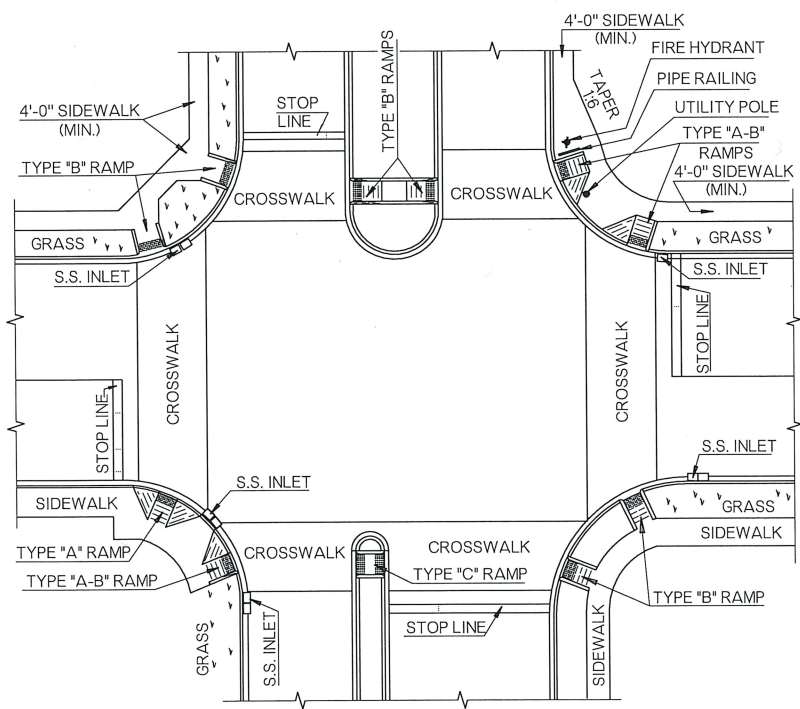
OKLAHOMA DEPARTMENT OF TRANSPORTATION
2009 SPECIFICATIONS

TFL-1	1
R-7	

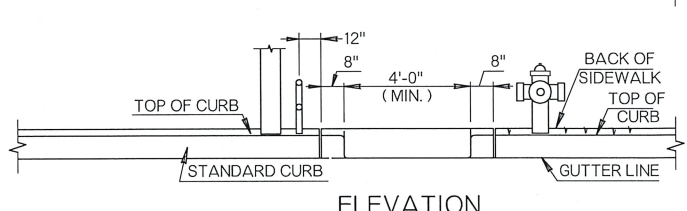
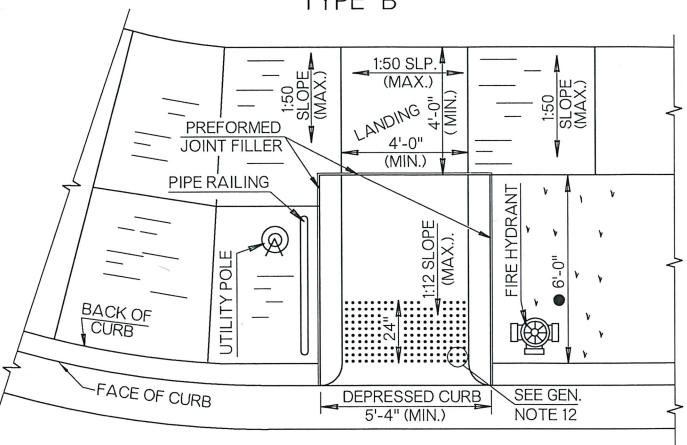
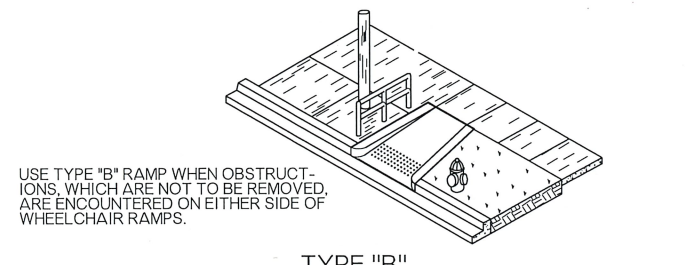
OKLAHOMA DEPARTMENT OF TRANSPORTATION		
STANDARD REVISIONS		
DESCRIPTION	DATE	



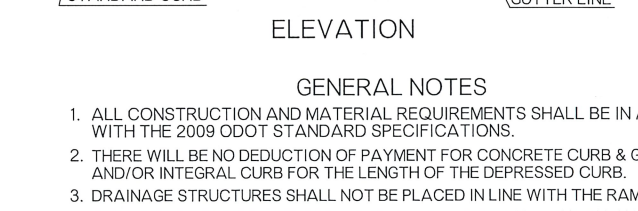
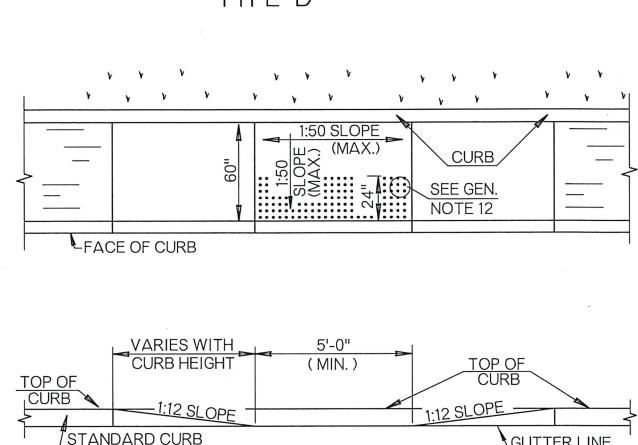
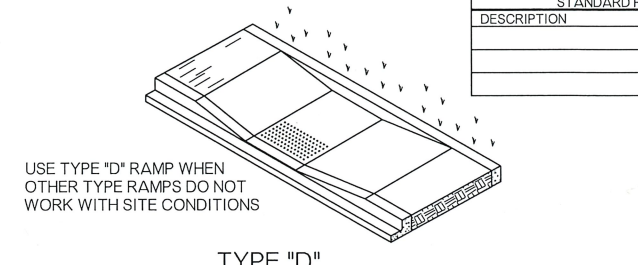
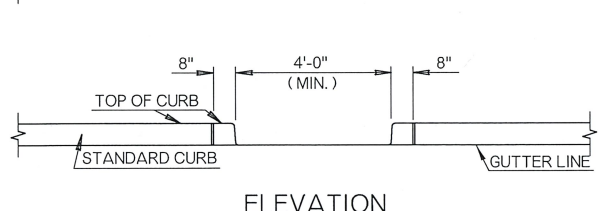
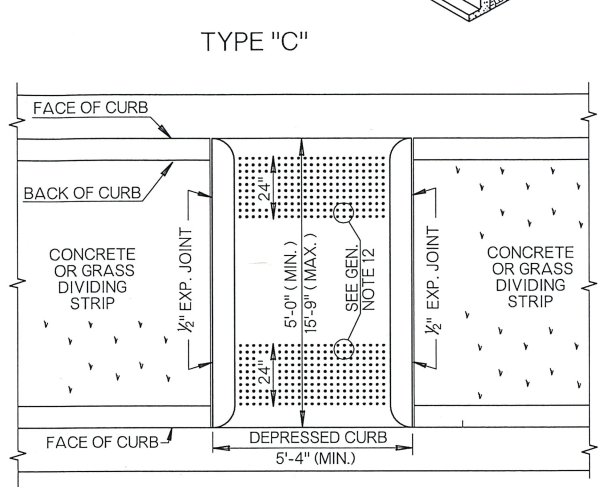
● RAMP DIMENSIONS SHOWN ARE BASED ON A CURB HEIGHT OF SIX INCHES. THE DIMENSIONS SHOULD BE ADJUSTED FOR OTHER CURB HEIGHTS. THE MAXIMUM PERMISSIBLE SLOPES OF THE WHEELCHAIR RAMPS IS 8.33% (1:12). RAMP SLOPE MAY BE 1:10 (MAXIMUM) ALONG FACE OF TAPERED CURB.



THE ABOVE EXAMPLES ARE TYPICAL ONLY AND ARE SHOWN TO ILLUSTRATE POSSIBLE RAMP TYPES, POSSIBLE RAMP LOCATIONS, POSSIBLE INLET LOCATIONS, AND HOW THE RAMP WILL BE DESIGNATED ON THE PLANS. CARE SHOULD BE EXERCISED TO ASSURE THAT MEDIAN RAMP AND CURB RAMP LINE UP AND THAT RAMPS THROUGHOUT A PROJECT ARE LOCATED WITH SOME DEGREE OF UNIFORMITY.



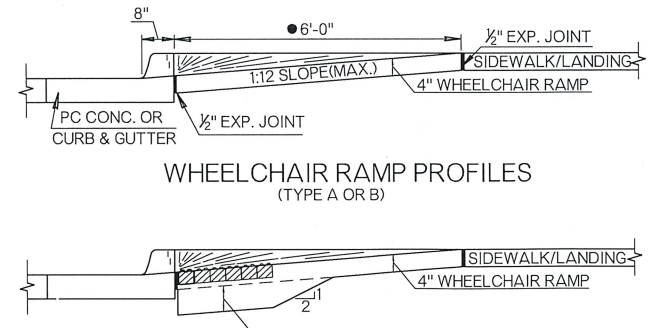
USE TYPE "C" RAMP TO CROSS 15'-9" OR LESS MEDIANS. FOR MEDIANS GREATER THAN 15'-9" USE SIDEWALK WITH TWO TYPE "B" RAMPS.



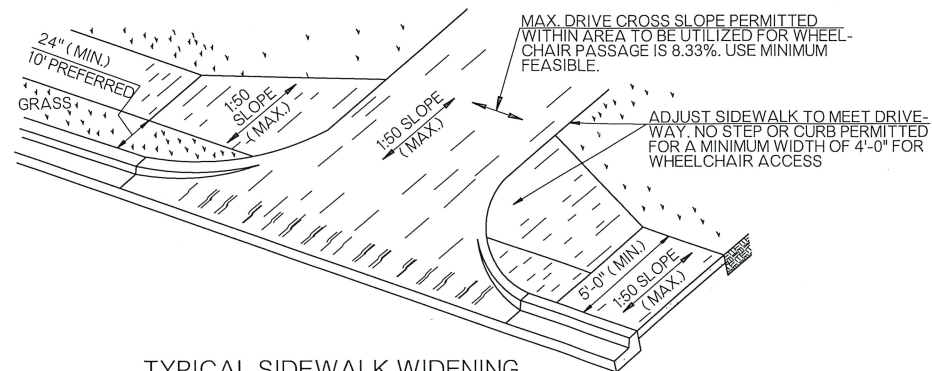
GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
- THERE WILL BE NO DEDUCTION OF PAYMENT FOR CONCRETE CURB & GUTTER AND/OR INTEGRAL CURB FOR THE LENGTH OF THE DEPRESSION CURB.
- DRAINAGE STRUCTURES SHALL NOT BE PLACED IN LINE WITH THE RAMPS.
- THE NORMAL GUTTER LINE PROFILE SHALL BE MAINTAINED THROUGH THE AREA OF THE RAMP WITH A 1:50 SLOPE (MAX.), SEE GENERAL NOTE NO. 9.
- WHEELCHAIR RAMPS SHOULD BE LOCATED SO THAT THE RAMP WILL BE ON THE TRAFFIC APPROACH SIDE OF ANY OBSTACLE.
- WHEELCHAIR RAMPS SHOULD BE BUILT AS SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THE TYPE OF RAMP WILL BE DESIGNATED ON THE PLANS. IF A RAMP IS TO BE CONSTRUCTED AS A COMBINATION OF TWO TYPES, (ONE SIDE TYPE "A" AND ONE SIDE TYPE "B") THE RAMP SHALL BE DESIGNATED AS TYPE "A-B."
- PIPE RAILING CONSTRUCTION DETAILS, WHEN REQUIRED AT TYPE "B" WHEELCHAIR RAMPS, WILL BE SHOWN ON THE PLANS.
- EXCAVATION, BACKFILL, EXPANSION JOINT MATERIAL, SEALERS, AND OTHER RELATED MISCELLANEOUS ITEMS WILL NOT BE PAID FOR SEPARATELY BUT THE COST THEREOF SHALL BE INCLUDED IN THE COST OF THE SIDEWALK.
- ALL FEATURES OF CONSTRUCTION INCLUDING, BUT NOT LIMITED TO, SIDEWALKS, CURB RAMPS AND CROSSWALK MARKINGS SHALL COMPLY WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THE PROWAG, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURE(S). THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THE PROWAG WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE PROWAG, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
- ALL WHEELCHAIR RAMP CURBS SHALL BE INCLUDED IN COST OF SIDEWALK.
- FOR DETAILS OF TACTILE WARNING DEVICES, SEE THE CURRENT VERSION OF ROADWAY STANDARD TWD-1.

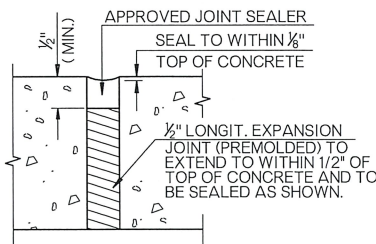
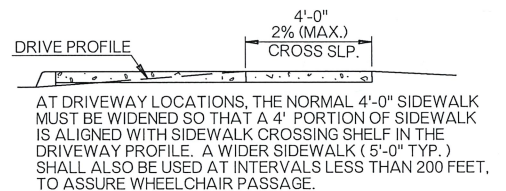
WHEELCHAIR RAMP PROFILES (TYPE A OR B)



SIDEWALK THICKENING FOR TYPE A TACTILE WARNING DEVICES



TYPICAL SIDEWALK WIDENING AT DRIVEWAY



BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
610 (A)	CONCRETE SIDEWALK	SY
622 (A)	PIPE RAILING	LF

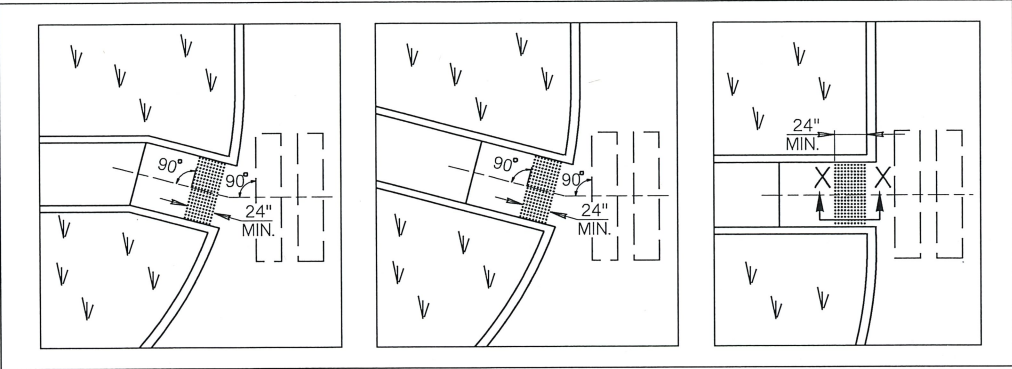
■ SIDEWALK THICKNESS SHALL BE SPECIFIED IN INCHES.

APPROVED BY ROADWAY ENGINEER *Calder* DATE *01/25/19*

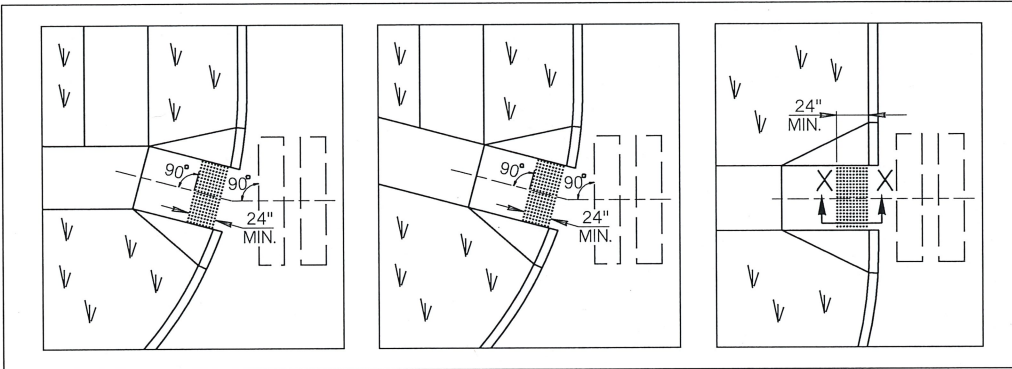
ROADWAY DESIGN DIVISION STANDARD

DOT WHEELCHAIR RAMPS

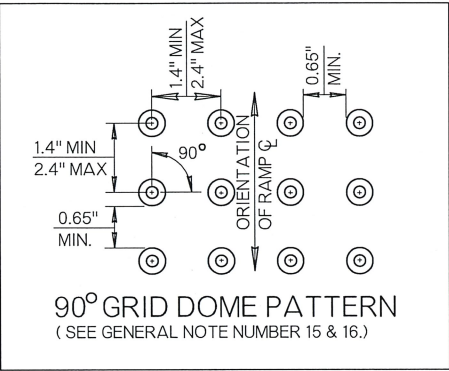
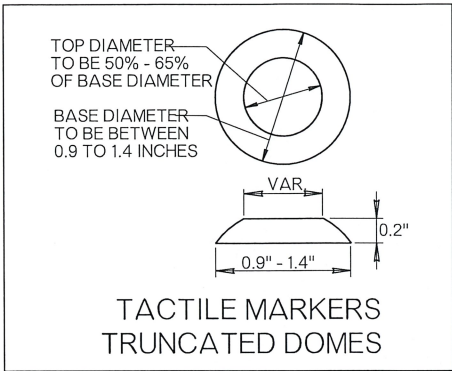
OKLAHOMA DEPARTMENT OF TRANSPORTATION		
STANDARD REVISIONS		
DESCRIPTION		DATE



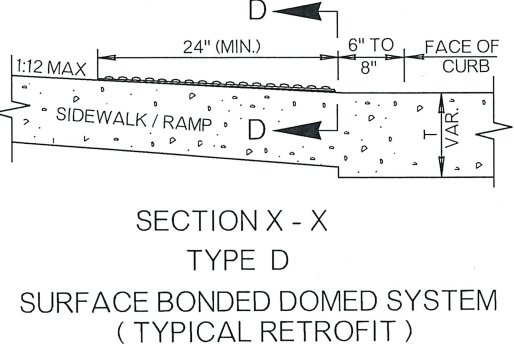
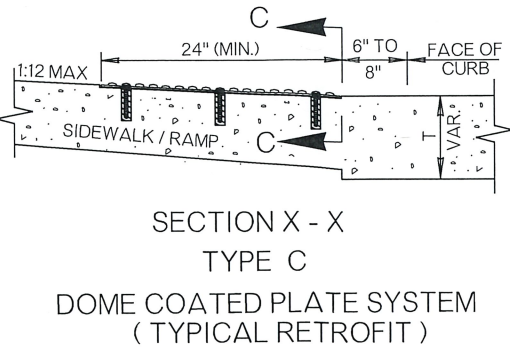
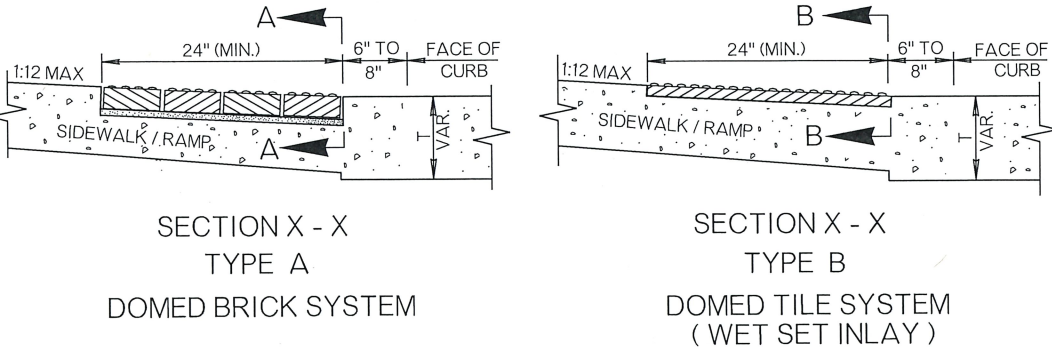
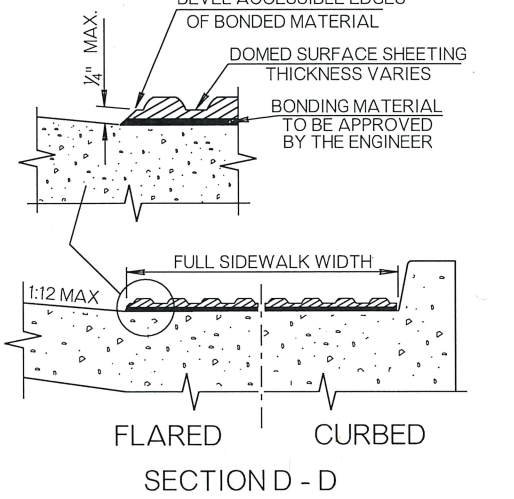
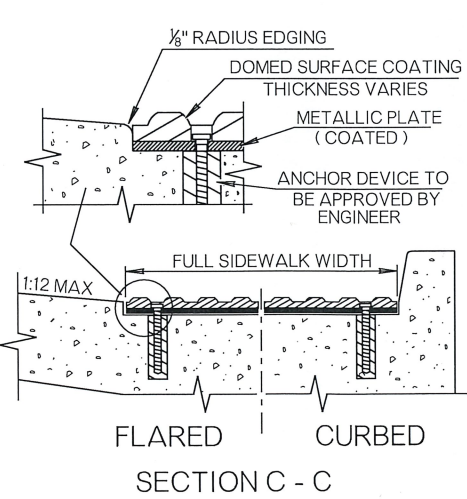
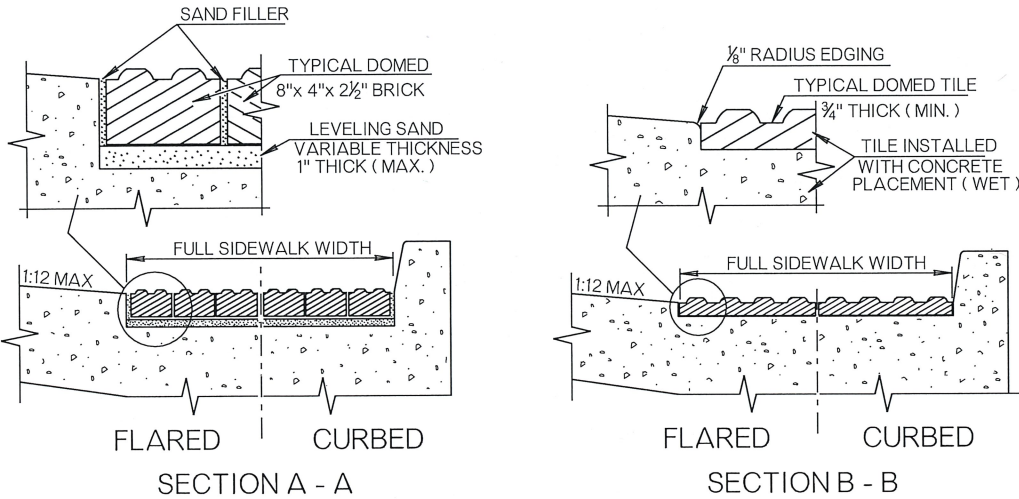
TACTILE SYSTEM ORIENTATION - TYPICAL CURBED RAMPS



TACTILE SYSTEM ORIENTATION - TYPICAL FLARED RAMPS



- GENERAL NOTES**
- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
 - ALL FEATURES OF TACTILE WARNING DEVICE DESIGN AND FINAL INSTALLATION SHALL COMPLY WITH THE PUBLIC RIGHT-OF-WAY ACCESSIBILITY GUIDELINES (PROWAG). WHERE SPATIAL LIMITATIONS OR EXISTING FEATURES WITHIN THE LIMITS OF THE PROJECT PREVENT FULL COMPLIANCE WITH THE PROWAG, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER UPON DISCOVERY OF SUCH FEATURE(S). THE CONTRACTOR SHALL NOT PROCEED WITH ANY ASPECT OF THE WORK WHICH IS NOT IN FULL COMPLIANCE WITH THE PROWAG WITHOUT PRIOR WRITTEN APPROVAL FROM THE ENGINEER. ANY WORK WHICH IS NOT PERFORMED WITHIN THE GUIDELINES OF THE PROWAG, FOR WHICH THE CONTRACTOR DOES NOT HAVE WRITTEN APPROVAL, SHALL BE CORRECTED AT THE CONTRACTOR'S EXPENSE.
 - TACTILE WARNING SURFACE SHALL EXTEND FROM EDGE TO EDGE OF WALKWAY ENTERING THE CROSSWALK, AT STREET LEVEL.
 - CURB IS NOT SHOWN IN THE SECTION X-X DETAIL ON THIS SHEET.
 - THICKNESS 'T' OF PAVEMENT ABUTTING SIDEWALK/RAMP VARIES.
 - SIDEWALK, RAMP AND FLARE THICKNESS SHALL BE 4" MINIMUM THICKNESS AFTER INSTALLATION OF TACTILE WARNING TREATMENT.
 - TRUNCATED DOME SURFACE SHALL CONTRAST VISUALLY WITH THE ADJOINING WALKING SURFACES EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT. THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE TRUNCATED SURFACE.
 - LEVELING SAND FOR DOMED BRICK SYSTEMS SHALL MEET THE REQUIREMENTS OF SECTION 703.06B(2) OF THE SPECIFICATIONS.
 - SURFACE BONDED TACTILE SYSTEMS MAY ONLY BE PLACED ON NEWLY POURED CONCRETE AFTER AN APPROPRIATE PERIOD OF CURING, IN ACCORDANCE WITH MANUFACTURE'S SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER.
 - ROWS OF TACTILE DOME TREATMENT SHOULD BE ORIENTED PARALLEL WITH CENTERLINE OF SIDEWALK/RAMP OR TOWARD THE CENTERLINE OF MARKED CROSSWALK.
 - EXPANSION JOINTS DEEMED NECESSARY, BUT NOT SHOWN ON THE PLANS, MAY BE ADDED AND PLACED DURING CONSTRUCTION, AS DIRECTED BY THE ENGINEER.
 - TACTILE SYSTEMS, DOME PATTERNS OR FEATURES DIFFERING FROM THOSE SHOWN ON THIS DETAIL, BUT MEETING CURRENT PROWAG SPECIFICATIONS, SHALL BE SUBMITTED TO AND APPROVED BY THE ENGINEER BEFORE INSTALLATION.
 - THE SAME TACTILE DOME PATTERN AND COLOR SHALL BE USED THROUGHOUT ANY NEW OR RETROFIT PROJECT. DOME PATTERN & LOCATION OF EXISTING RAMPS TO BE RETROFIT WITH TACTILE DEVICES SHALL BE DESIGNATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.
 - RETROFIT INSTALLATIONS WILL NOT REQUIRE REPLACING EXISTING DEPRESSED CURBING. A NOMINAL 6 TO 8 INCH SETBACK FROM FACE OF CURB SHALL BE ENFORCED FOR NEAR EDGE OF TACTILE DOMES.
 - TYPES A & B TACTILE SYSTEMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 10,000 PSI. TYPES C & D SYSTEMS SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 2000 PSI. COMPRESSIVE TESTS MEET ASTM D695.
 - TACTILE WARNING SURFACES MAY NOT BE STAMPED IN WET CONCRETE.



BASIS OF PAYMENT		
ITEM NO.	ITEM	UNIT
610 (1)	TACTILE WARNING DEVICE - NEW	SF
610 (1)	TACTILE WARNING DEVICE - RETROFIT	SF

NOTE: TYPE A OR B TACTILE WARNING DEVICE SHALL BE SPECIFIED ON THE PLANS FOR NEW CONSTRUCTION & TYPE C OR D SHALL BE SPECIFIED ON THE PLANS FOR RETROFIT CONSTRUCTION.

APPROVED BY

ROADWAY ENGINEER



DATE:

01/23/19

ROADWAY DESIGN DIVISION STANDARD



TACTILE WARNING DEVICES

OKLAHOMA DEPARTMENT OF TRANSPORTATION

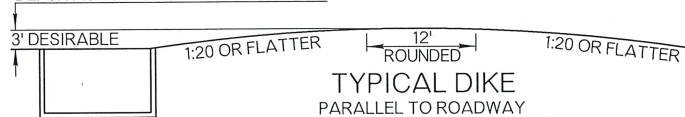
2009 SPECIFICATIONS

TWD-1

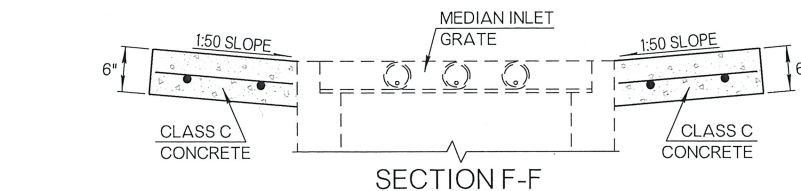
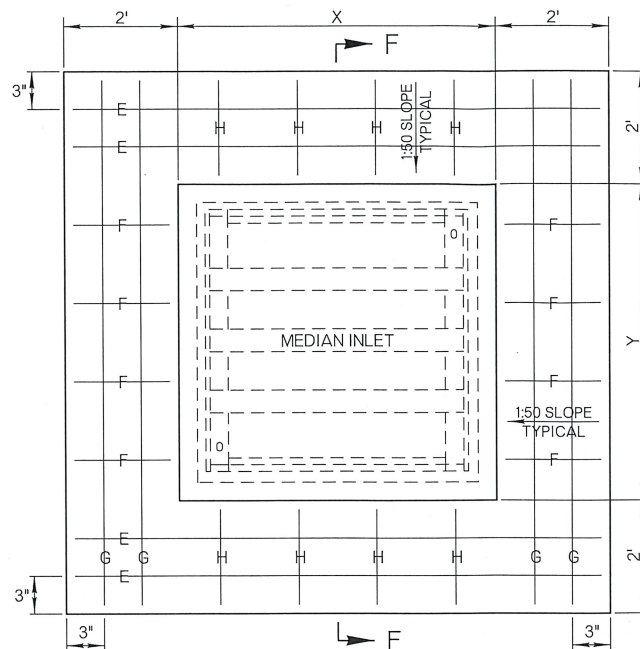
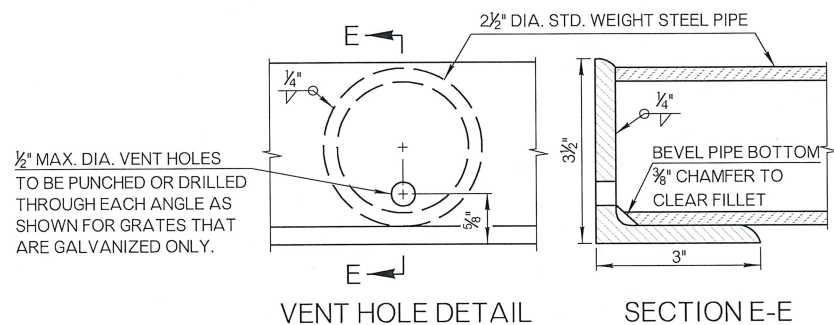
1

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DEPTH AS DIRECTED BY THE ENGINEER



NOTE: WHEN A DIKE IS REQUIRED, IT SHALL BE CONSTRUCTED SLOPING UP FROM THE INLET ON A 1:20 SLOPE TO A DESIRABLE HEIGHT OF 3 FEET. IN NO CASE SHALL THE DIKE TOP BE HIGHER THAN 6" BELOW THE FINISHED GRADE OF THE INNER EDGE OF SURFACING AS SHOWN ON THE PLAN AND PROFILE SHEET.



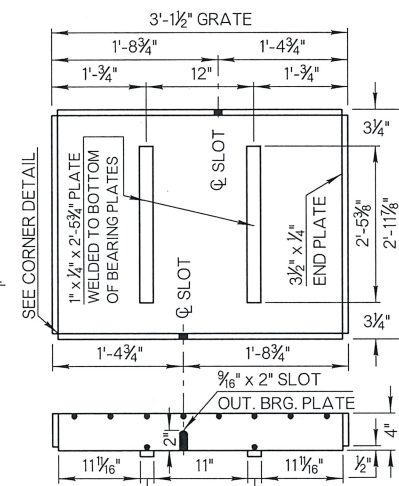
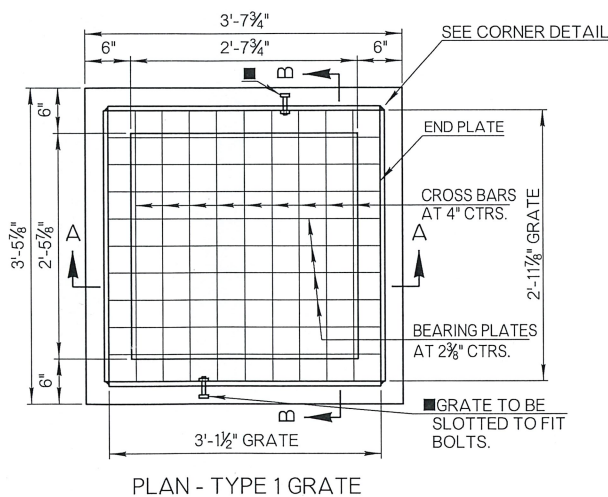
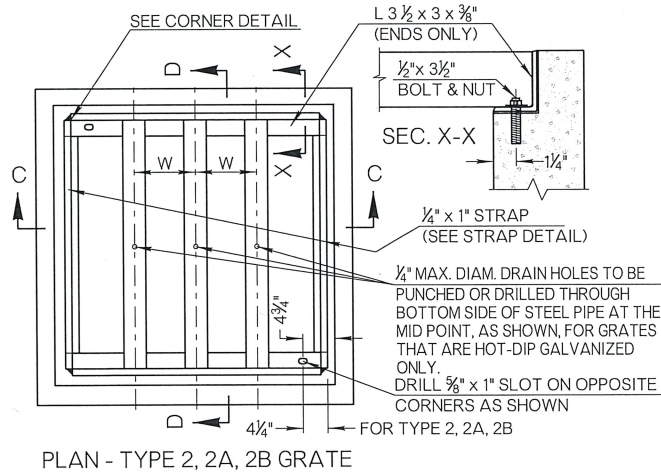
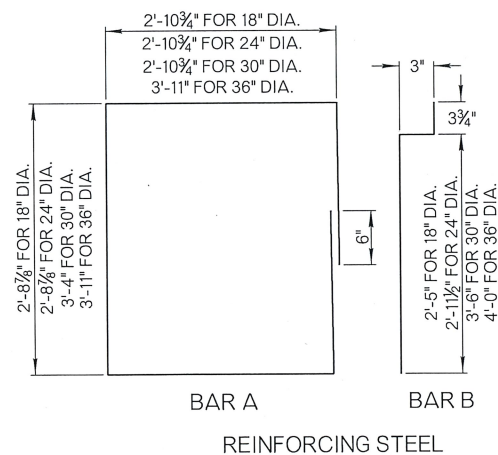
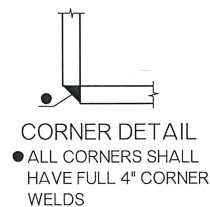
APRON REINFORCING STEEL LOCATION & LENGTHS

(#4 BARS - EQUALLY SPACED @ 18" MAXIMUM)*

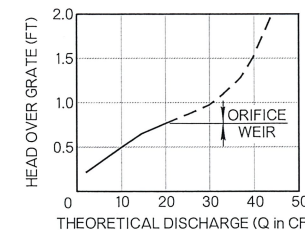
DIAMETER	E - BARS	F - BARS	G - BARS	H - BARS	X	Y	APRON REINF. STEEL °	APRON CLASS C CONCRETE °
IN.	(NO.) FT. - IN.	(NO.) FT. - IN.	(NO.) FT. - IN.	(NO.) FT. - IN.	FT. - IN.	FT. - IN.	LB.	C.Y.
18 & 24	(4) 7 - 2 1/2	(8) 1 - 9	(4) 7 - 4 3/4	(8) 1 - 9	3 - 7 3/4	3 - 5 1/2	57	0.41
30	(4) 7 - 10	(8) 1 - 9	(4) 7 - 4 3/4	(8) 1 - 9	3 - 7 3/4	4 - 1	59	0.43
36	(4) 8 - 5	(9) 1 - 9	(4) 8 - 5	(9) 1 - 9	4 - 8	4 - 8	66	0.49

*MINIMUM 1 1/2" COVER OVER STEEL

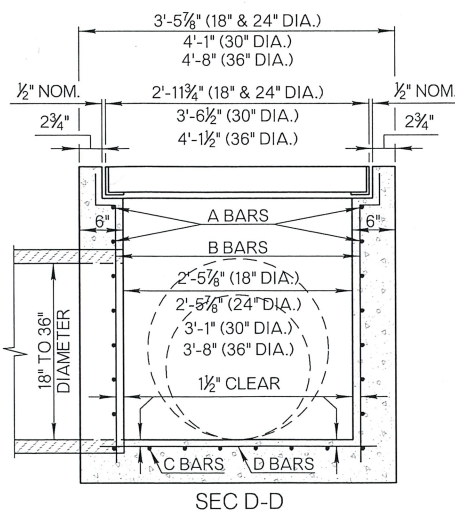
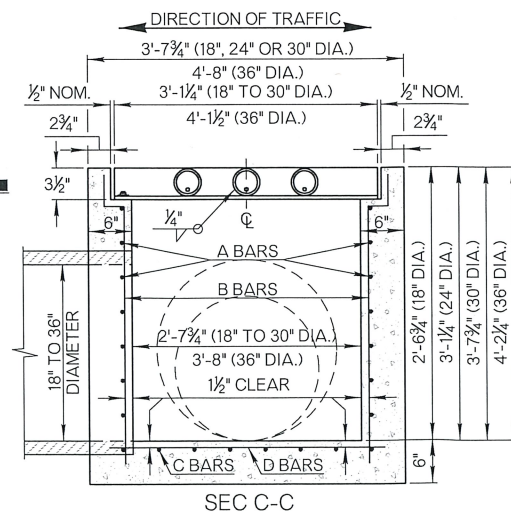
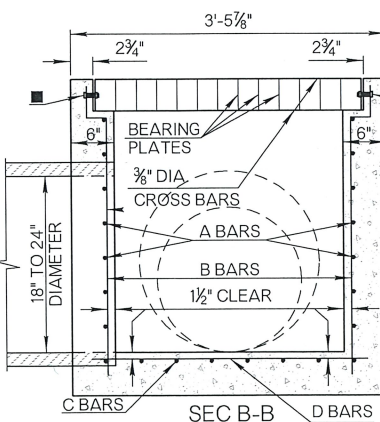
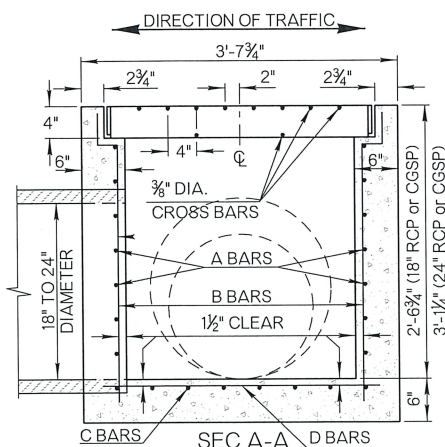
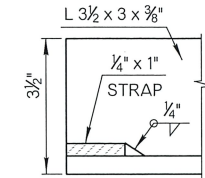
°QUANTITIES ARE FOR ONE APRON



■ 1/2" DIA. x 3 1/2" STD. HEX BOLT W/ NUT (2 TOTAL)
CROSS BARS - 3/8" DIA. x 2'-11 1/2" (10 TOTAL)
END PLATES - 3 1/2" x 1/2" x 2'-11 1/2" (2 TOTAL)
BEARING PLATES - 4" x 1/4" x 3'-1" (16 TOTAL)



NOTE: TO ALLOW FOR CLOGGING 60% THEORETICAL DISCHARGE IS THE RECOMMENDED FACTOR TO USE IN AREAS SUBJECT TO FLOODING.



SMD BAR LIST

BAR	SIZE	NO.	SHAPE	LENGTH	SPACE
TYPE 1 - 18" OR 24" RCP OR CGSP					
A	#4	5	BENT	11'-10"	6" C/C
B	#4	15	BENT	2'-11 1/2"	9" C/C
C	#5	7	STR.	3'-1 1/2"	6" C/C
D	#5	6	STR.	3'-3 3/4"	6" C/C
TYPE 2 - 18" OR 24" RCP OR CGSP					
A	#4	6	BENT	11'-10"	6" C/C
B	#4	16	BENT	3'-6 1/4"	9" C/C
C	#5	7	STR.	3'-1 1/2"	6" C/C
D	#5	6	STR.	3'-3 3/4"	6" C/C
TYPE 2A - 18", 24" OR 30" RCP OR CGSP					
A	#4	7	BENT	12'-11 1/2"	6" C/C
B	#4	18	BENT	4'-1"	9" C/C
C	#5	7	STR.	3'-3 3/4"	6" C/C
D	#5	7	STR.	3'-7"	6" C/C
TYPE 2B - 18", 24", 30" OR 36" RCP OR CGSP					
A	#4	8	BENT	16'-2"	6" C/C
B	#4	20	BENT	4'-7"	9" C/C
C	#5	7	STR.	4'-4"	6" C/C
D	#5	8	STR.	4'-4"	6" C/C

GRATES - OVERALL DIMENSIONS

TYPE 1 GRATE: 3'-1 1/2" x 2'-11 1/2"

TYPE 2 GRATE: 3'-1 1/2" x 2'-11 1/2"

TYPE 2A GRATE: 3'-1 1/2" x 3'-6 1/2"

TYPE 2B GRATE: 4'-1 1/2" x 4'-1 1/2"

W = 8 1/2" FOR TYPE 2

W = 9" FOR TYPE 2A & 2B

PIPE GRATE MATERIAL

2 1/2" I.D. STD. WEIGHT STEEL PIPE

ESTIMATED SMD QUANTITIES

DESIGNATED PIPE SIZE IN INLET	TYPE OF GRATE	1 PIPE CLASS A CONC.	2 PIPES CLASS A CONC.	REINF. STEEL	CLASS A CONC.	REINF. STEEL
		CY	CY	LB.	CY	LB.
18" RCP	1 OR 2	0.75	0.67	115	0.23	27
24" RCP	1 OR 2	0.85	0.76	129	0.23	27
30" RCP	2A	1.06	0.96	160	0.25	29
36" RCP	2B	1.52	1.38	211	0.31	35

ADD'L SMD DEPTH PER VERT. FT.

GENERAL NOTES

- ALL CONSTRUCTION AND MATERIAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE 2009 ODOT STANDARD SPECIFICATIONS.
- VENT HOLES AND DRAIN HOLES FOR HOT DIP GALVANIZATION SHALL BE DRILLED OR PUNCHED IN GRATE AS SHOWN.
- BICYCLE AND PEDESTRIAN SAFE GRATES, SIMILAR TO TYPE 1 GRATES, MAY BE USED, PROVIDED THEY MEET THE MINIMUM EQUIVALENT HYDRAULIC AND STRUCTURAL REQUIREMENTS AND PROPOSED DESIGNS ARE APPROVED BY THE ENGINEER. SUBSTITUTED GRATES SHALL BE INCLUDED IN THE PRICE BID FOR THE RESPECTIVE INLET.
- EXPOSED ROUNDED EDGING. ALL EXPOSED SURFACES SHALL BE FINISHED IN ACCORDANCE WITH SECTION 509 OF THE SPECIFICATIONS.
- COST OF APRON MATERIALS (INCLUDING REINFORCING STEEL), LABOR, AND INSTALLATION SHALL BE INCLUDED IN THE PRICE BID FOR SMD INLET.
- AS-SHOWN ON THIS STANDARD, INLET CONCRETE DRAWINGS AND INLET REINFORCING STEEL DESIGN ARE BASED ON CAST-IN-PLACE MANUFACTURING. PRECAST CONCRETE MANUFACTURED DESIGN AND DRAWINGS ARE ON ROADWAY STANDARD PSMD-0.

BASIS OF PAYMENT

ITEM NO.	ITEM	UNIT
611 (G)	INLET (SMD-TYPE 1)	EA
611 (G)	INLET (SMD-TYPE 2)	EA
611 (G)	INLET (SMD-TYPE 2A)	EA
611 (G)	INLET (SMD-TYPE 2B)	EA

NOTE: COST OF INLET GRATE SHALL BE INCLUDED IN THE PRICE BID FOR THE INLET. COST OF ALL CLASS A CONCRETE AND REINFORCING STEEL NECESSARY FOR ADDITIONAL DEPTH SHALL BE INCLUDED IN THE PRICE BID FOR THE INLET. INLET ADDITIONAL DEPTH DATA SHALL BE NOTED ON THE PLANS.

APPROVED BY
ROADWAY ENGINEER:

ROADWAY DESIGN DIVISION STANDARD

STANDARD MEDIAN DRAINS
(18" TO 36" PIPES)OKLAHOMA DEPARTMENT OF TRANSPORTATION
2009 SPECIFICATIONS

SMD-3

2

R-36

