

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

WATER LINE GENERAL NOTES

- ALL WATER LINE CONSTRUCTION HEREON TO BE IN ACCORDANCE WITH YUMA COUNTY STANDARDS AND SPECIFICATIONS AND THE ARIZONA DEPARTMENT OF ENVIRONMENTAL QUALITY REGULATIONS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND FURNISHING TO THE ENGINEER OF "AS-BUILT" RECORD DRAWINGS. THE CONTRACTOR SHALL OBTAIN ONE SET OF PLANS FROM THE ENGINEER AND SHALL RECORD IN RED COLORED PENCIL ALL CASES WHERE ACTUAL FIELD CONSTRUCTION DIFFERS FROM WORK SHOWN ON THE PLANS, TO INCLUDE SERVICE LOCATIONS.
- ALL WATERLINES WILL BE PRESSURE AND LEAKAGE TESTED TO 150 PSI FOR 2 HOURS. SEE THIS SHEET FOR TEST PROCEDURE.
- WATER CONTRACTOR SHALL PROVIDE THE ENGINEER WITH A COPY OF THE BACTERIOLOGICAL TEST RESULTS TAKEN ON THE SYSTEM.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BLUE STAKE CENTER TO LOCATE ALL UNDERGROUND EQUIPMENT WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. CALL THE BLUE STAKE CENTER AT 1-800-782-5348. CONTRACTOR SHALL VERIFY LOCATION AN ELEVATIONS OF ALL EXISTING UTILITIES. PRIOR TO ANY CONSTRUCTION LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND INFORMATION ONLY.
- THE CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT EXISTING UTILITIES FROM DAMAGE DUE TO HIS OPERATIONS. ANY DAMAGE TO THE UTILITIES SHALL BE REPAIRED AT CONTRACTOR'S EXPENSE.
- DEFLECT 8" WATER LINE AS SHOWN. MAX. EXCEPTABLE DEFLECTION OF 8" PIPE PER STANDARD 20' LENGTH TO BE 9". NO DEFLECTION TO OCCUR AT JOINT.
- THE ENGINEER SHALL REVIEW ALL PIPE (WATER) MATERIAL SUBMITTALS TO ENSURE CONFORMANCE TO REQUIREMENTS BEFORE THE START OF CONSTRUCTION.
- ALL WATER LINES (MAINS AND SERVICES) SHALL INCLUDE THE INSTALLATION OF TRACER WIRE IN ACCORDANCE WITH STANDARD DETAIL No. 5-210.
- THE END OF EACH WATER LINE TO HAVE A TEMPORARY OR PERMANENT BLOWOFF VALVE, AS SHOWN IN PLANS.
- THE CONTRACTOR MUST COORDINATE CONSTRUCTION INSPECTION WITH THE ENGINEER.
- WATER/ SEWER LINES SEPARATION NEEDS TO BE IN ACCORDANCE WITH A.A.C.R18-4-502.C.

WATER LINE TESTING PROCEDURE

- ALL VISIBLE LEAKS SHALL BE REPAIRED REGARDLESS OF THE AMOUNT OF LEAKAGE AND REGARDLESS OF WHETHER THE LEAK DEVELOPS UNDER TEST PRESSURE OR LINE PRESSURE.
- INITIAL PRESSURES FOR BOTH THE PRESSURE TEST AND ALLOWABLE LEAKAGE TEST SHALL BE A MINIMUM OF 150 PSI
- A PRESSURE TEST WILL BE DEEMED AS SUCCESSFUL IF IT PASSES THE CRITERIA SET FORTH BY AWWA C-600, SEC. 94 (CURRENT EDITION) AND THAT CRITERIA NOTED ABOVE.
- SHOULD THE PRESSURE TEST BE UNSUCCESSFUL, THE CONTRACTOR HAS THE OPTION OF ATTEMPTING THE ALLOWABLE LEAKAGE TEST. THIS TEST WILL BE DEEMED SUCCESSFUL IF IT PASSES THE CRITERIA SET FORTH IN AWWA C-600, SECTION 94 (CURRENT EDITION) OR AWWA M-23 (CURRENT EDITION) WHICHEVER IS MORE RESTRICTIVE AND THAT CRITERIA NOTED ABOVE.
- DISINFECTION PROCEDURES FOR WATER LINES TO BE DONE AS PER AWWA C-605-94

ROAD CONSTRUCTION NOTES:

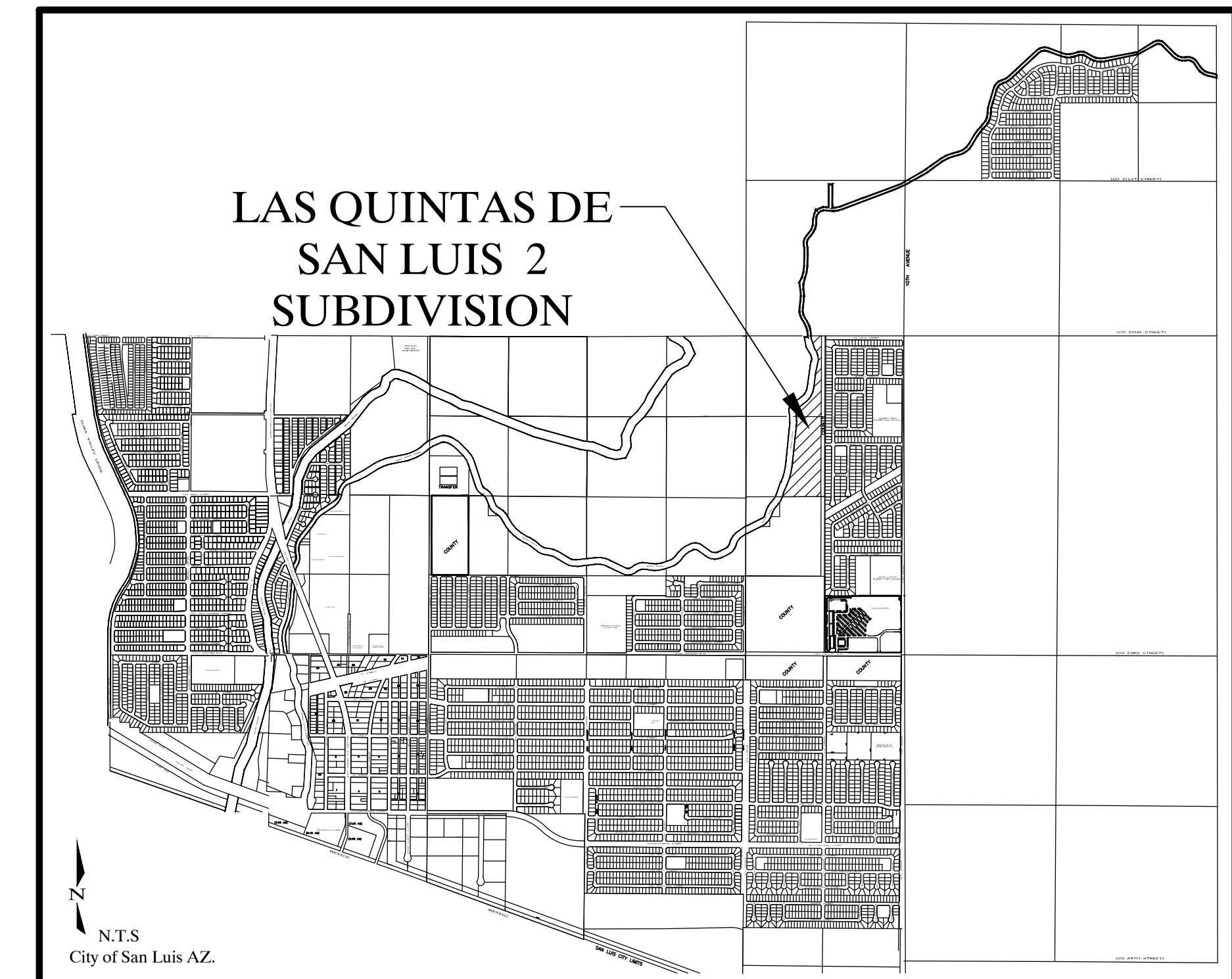
- ALL MATERIALS AND CONSTRUCTION HEREON SHALL CONFORM TO YUMA COUNTY, AS ADOPTED BY THE CITY OF SAN LUIS, STANDARD SPECIFICATIONS AND CONSTRUCTION STANDARDS UNLESS OTHERWISE SHOWN ON THESE PLANS.
- ALL CITY OF SAN LUIS REQUIRED COMPACTION AND LABORATORY TESTS SHALL BE FURNISHED BY THE CONTRACTOR TO THE CITY OF SAN LUIS PRIOR TO ACCEPTANCE OF THE PROJECT.
- ALL DIMENSIONS HEREON ARE TO THE BACK OF CURB.
- CONTRACTOR TO MAINTAIN DUST ABATEMENT AT ALL TIMES DURING CONSTRUCTION.
- REFER TO SHEET 2 OF 3 AND 3 OF 3 OF FINAL PLAT FOR ALL CORRECT DIMENSIONS.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO NOTIFY THE BLUE STAKE CENTER TO LOCATE ALL UNDERGROUND EQUIPMENT WITHIN THE CONSTRUCTION AREA 48 HOURS PRIOR TO THE START OF ANY EXCAVATION. CALL THE BLUE STAKE CENTER AT 1-800-782-5348. CONTRACTOR SHALL VERIFY LOCATION AN ELEVATIONS OF ALL EXISTING UTILITIES. PRIOR TO ANY CONSTRUCTION LOCATION OF UTILITIES SHOWN ON THESE PLANS ARE APPROXIMATE AND INFORMATION ONLY.
- ALL CURB CORNER RADIUS TO BE 25.0' TO BACK OF CURB UNLESS OTHERWISE NOTED.
- SEE SUBDIVISION PLAT FOR ALL BOUNDARY INFORMATION AND DIMENSIONS; DO NOT SCALE.

LEGEND

	BOUNDARY LINE
	CENTER LINE
	PROPERTY LINE
	LOT LINE
	SET MONUMENT (TYPE AS SHOWN)
	SET MONUMENT (TYPE AS SHOWN)
	EXISTING AC PAVEMENT
	NEW AC PAVEMENT
	NEW CONCRETE
	NEW CURB & GUTTER
	NEW SLOPED AREA
	LOT NUMBERS
	EXISTING ELEVATION
	EXISTING ASPHALT ELEVATION
	EXISTING CURB & GUTTER ELEVATION
	NEW CURB AND GUTTER ELEVATION
	NEW ASPHALT ELEVATION
	EXISTING SEWER LINE
	EXISTING WATER MAIN
	NEW SEWER LINE
	NEW WATER MAIN
	NEW MANHOLE
	EXISTING MANHOLE
	INDICATES INVERT ELEVATION
	NEW DUAL WATER SERVICE
	NEW SINGLE WATER SERVICE
	NEW FIRE HYDRANT
	NEW GATE VALVE
	NEW TEMPORARY BLOWOFF
	NEW SEWER SERVICE
	NEW DUCTILE IRON PIPE

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PAVING AND GRADING PLAN	----	3
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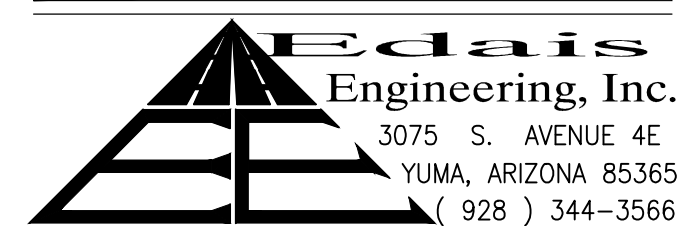


VICINITY MAP

OWNER/SUBDIVIDER

RIEDEL HOLDINGS, L.L.C.
P.O. BOX 1649
SAN LUIS, ARIZONA 85349

ENGINEER



BENCHMARK

TOP OF BRASS CAP LOCATED AT THE INTERSECTION OF CRISTINA STREET AND 10th AVENUE (LAS QUINTAS DE DE SAN LUIS SUBDIVISION) ELEVATION: 136.32

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)

THESE PLANS NOT TO BE USED FOR CONSTRUCTION UNTIL APPROVED BY THE CITY, ADEQ, AND OTHER AGENCIES HAVING JURISDICTION ON THIS PROJECT

Nahef K. Edais
26844
NAJEH K. ED AIS
ED AIS
State of Arizona, U.S.A.

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
COVER SHEET

SCALE: AS SHOWN	DESIGNED BY: N.K.E.	CHECKED BY: N.K.E.
DATE: OCT. 2016	DRAWN BY: STAFF	JOB No. 14-015

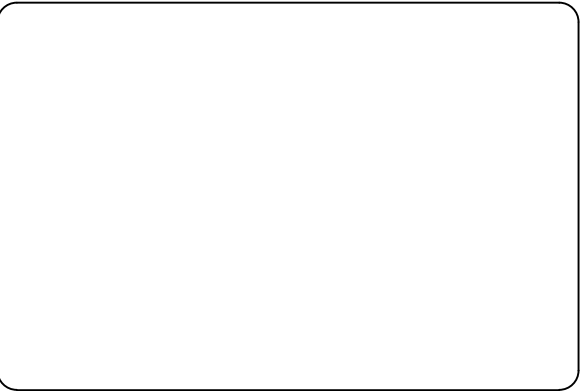
SHEET 00

ED AIS Engineering, Inc.
PLANNING-ENGINEERING-ARCHITECTURAL
3075 S. Ave., 4E Yuma, Arizona 85365
(928) 344-3566 FAX (928) 341-1075
EMAIL: EE@Edaisengineering.com

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

A SUBDIVISION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER LYING EAST MAIN CANAL AND PARCEL B OF THE BARKLEY LOT SPLIT No.2 AS RECORDED IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., BEING A PORTION OF GOVERNMENT LOT 2, ALSO BEING A PORTION OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, TOGETHER IN SECTION 6, TOWNSHIP 11 SOUTH, RANGE 24 WEST, GILA AND SALT RIVER BASE AND MERIDIAN, YUMA COUNTY, ARIZONA

DATE: OCTOBER 2016 ACREAGE - 28.75 AC



BOOK _____ OF PLATS,
PAGE _____

APPROVED

STATE OF ARIZONA)
) SS
CITY OF SAN LUIS)

THIS SUBDIVISION AS PLATTED HEREON HAS BEEN APPROVED BY THE MAYOR AND THE CITY COUNCIL OF THE CITY OF SAN LUIS, ARIZONA.

MAYOR _____ DATE _____

CITY MANAGER _____ DATE _____

CITY PLANNING & ZONING COMMISSION _____ DATE _____

CITY ENGINEER _____ DATE _____

CITY PUBLIC WORKS DIRECTOR _____ DATE _____

BASIS OF BEARING

THE SOUTH LINE OF THE SW¼ OF SECTION 6, T11S, R24W, NAMED N 89°40'11" W AS SHOWN ON STATE PLAT No. 17 COMITE DE BIENESTAR AS RECORDED IN BOOK 11 OF PLATS, PAGES 86-88, YCR

RESTRICTIVE COVENANTS

HAVE BEEN RECORDED CONCURRENTLY AND ARE A PART OF THIS PLAT

NOTE:

LOTS 1 TO 40 OF THE SUBDIVISION HAVE GRADING SLOPES THAT HAVE BEEN SPECIFICALLY DESIGNED TO PROTECT THE PROPERTIES ADJACENT TO THE LOTS. LOTS 40 TO 70 OF THE SUBDIVISION HAVE GRADING SLOPES THAT HAVE BEEN SPECIFICALLY DESIGNED TO PROVIDE FOR STORMWATER RETENTION AND TO AVOID IMPOSING ADDITIONAL LOADS ON THE ADJACENT RETAINING WALLS. THIS DESIGN IS REFERRED TO IN THE COVENANTS, CONDITIONS AND RESTRICTIONS AS THE "MASTER PLAN." ANY GRADING OR OTHER WORK CONDUCTED ON THESE LOTS MUST CONFORM TO THE "MASTER PLAN" FOR THESE DESIGNED SLOPES AND WILL REQUIRE SUBMITTAL OF A SITE PLAN PREPARED BY AN ARIZONA REGISTERED PROFESSIONAL ENGINEER PRIOR TO OBTAINING A BUILDING PERMIT. EROSION CONTROL PROVISIONS FOR THESE SLOPES MUST BE CONSTRUCTED AND MAINTAINED AND THE INTEGRITY OF THE SLOPES ON THESE LOTS SHALL BE MAINTAINED BY THE LOT OWNERS IN PERPETUITY. SEE THE RECORDED COVENANTS, CONDITIONS AND RESTRICTIONS FOR THE SUBDIVISION FOR ADDITIONAL REQUIREMENTS

SUBDIVIDER/OWNER

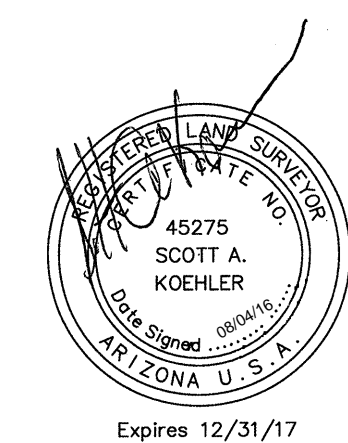
RIEDEL HOLDINGS, L.L.C.
P.O. BOX 1649
SAN LUIS, ARIZONA 85349

PREPARED BY:

Edais Engineering, Inc.
3075 S. AVENUE 4 E
YUMA, ARIZONA 85365
(928) 344-3566

SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THE SUBDIVISION SHOWN HEREON WAS MADE UNDER MY DIRECTION DURING JULY OF 2016, AND THAT THIS SUBDIVISION CONFORMS TO ALL REGULATIONS AND REQUIREMENTS OF THE SUBDIVISION REGULATIONS OF THE CITY OF SAN LUIS, ARIZONA.



DEDICATION

KNOW ALL MEN BY THESE PRESENTS: THAT RIEDEL HOLDINGS, L.L.C., AN ARIZONA LIMITED LIABILITY COMPANY, AS OWNER HAS THIS THE _____ DAY OF _____, 2016, CAUSED A PORTION OF THE W¼ OF THE NE¼ OF SECTION 6, TOWNSHIP 11 SOUTH, RANGE 24 WEST, G.A.S.R.B.&M., YUMA COUNTY, ARIZONA, AS PLATTED HEREON, TO BE SUBDIVIDED INTO LOTS, TRACTS & STREETS UNDER THE NAME OF "LAS QUINTAS DE SAN LUIS 2 SUBDIVISION" AND HEREBY DECLARES THAT THE ACCOMPANYING PLAT SETS FORTH THE LOCATION AND GIVES THE DIMENSIONS OF THE LOTS AND STREETS, CONSTITUTING SAID "LAS QUINTAS DE SAN LUIS 2 SUBDIVISION" AND THAT EACH LOT SHALL BE KNOWN BY THE NUMBER, THE TRACTS BY THE LETTER AND THE STREETS BY THE NAME GIVEN EACH RESPECTIVELY ON SAID PLAT;

AND THAT RIEDEL HOLDINGS, L.L.C., AS OWNER, HEREBY DEDICATES THE STREETS SHOWN HEREON TO THE PUBLIC FOR ITS USE AND BENEFIT, AND THAT THE EASEMENTS ARE DEDICATED FOR THE USES SHOWN AND DEFINED ON SAID PLAT AND AS SET FORTH IN THE DECLARATION OF RESERVATIONS, COVENANTS, CONDITIONS AND RESTRICTIONS RECORDED CONCURRENTLY HEREWITH. TRACT "A" IS DEDICATED TO THE PUBLIC FOR USE AS STORM WATER RETENTION BASIN AND COMPATIBLE RECREATIONAL USES

IN WITNESS WHEREOF: RIEDEL HOLDINGS, L.L.C., HAS CAUSED ITS CORPORATE NAME TO BE SIGNED AND ITS CORPORATE SEAL TO BE AFFIXED BY THE SIGNATURE OF NIEVES GARCIA RIEDEL, AS MEMBER, THEREUNTO DULY AUTHORIZED ON THIS THE _____ DAY OF _____, 2016.

BY: _____
NIEVES GARCIA RIEDEL, MEMBER
RIEDEL HOLDINGS, L.L.C.

ACKNOWLEDGMENT

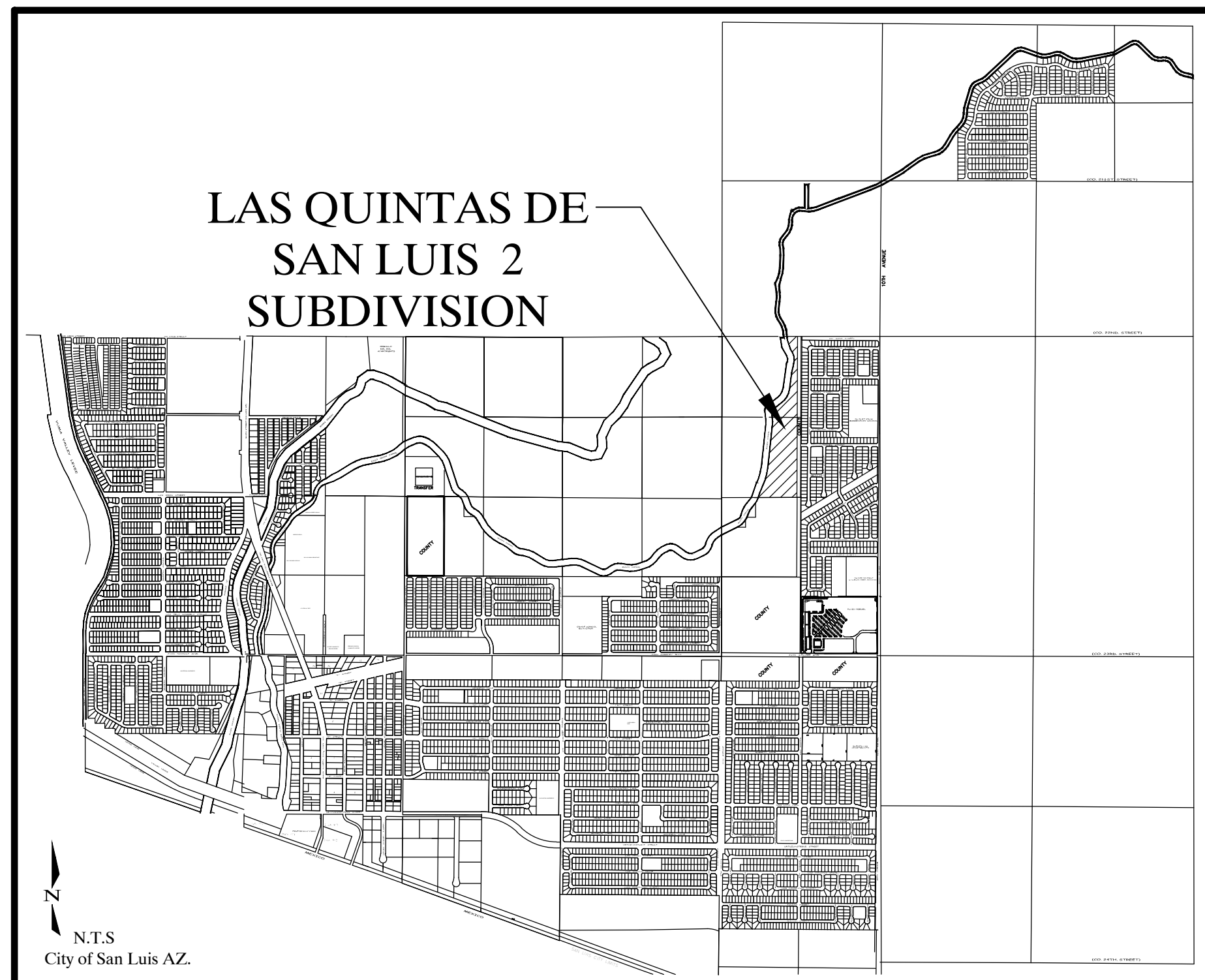
STATE OF ARIZONA)
) SS
COUNTY OF YUMA)

ON THIS THE _____ DAY OF _____, 2016 BEFORE ME, THE UNDERSIGNED OFFICER PERSONALLY APPEARED, NIEVES GARCIA RIEDEL, WHO ACKNOWLEDGED HERSELF TO BE MEMBER OF RIEDEL HOLDINGS, L.L.C., AN ARIZONA LIMITED LIABILITY COMPANY, AND SHE AS SUCH OFFICER BEING AUTHORIZED TO DO SO, EXECUTED THE FOREGOING INSTRUMENT FOR THE PURPOSES THEREIN CONTAINED, BY SIGNING THE NAME OF THE LIMITED LIABILITY COMPANY BY HERSELF, AS SUCH OFFICER.

IN WITNESS WHEREOF, I HAVE SET MY HAND AND OFFICIAL SEAL.

BY: _____
NOTARY PUBLIC

MY COMMISSION EXPIRES: _____



VICINITY MAP

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

A SUBDIVISION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER LYING EAST MAIN CANAL AND PARCEL B OF THE BARKLEY LOT SPLIT No.2 AS RECORDED IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., BEING A PORTION OF GOVERNMENT LOT 2, ALSO BEING A PORTION OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, TOGETHER IN SECTION 6, TOWNSHIP 11 SOUTH, RANGE 24 WEST, GILA AND SALT RIVER BASE AND MERIDIAN, YUMA COUNTY, ARIZONA

DATE: OCTOBER 2016 ACREAGE - 28.75 AC

LEGEND

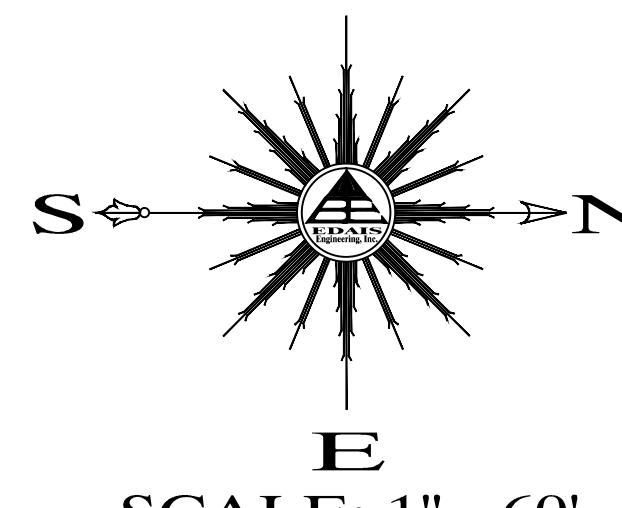
- CENTERLINE
- BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING LOTS
- NEW PROPERTY LINE
- FOUND MONUMENT (TYPE AS SHOWN)
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- NEW SUBDIVISION BOUNDARY MONUMENT PER YUMA COUNTY STD. No. 4-030
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- ([1]) DATA REFER TO BARKLEY PROPERTY - SAN LUIS, BOUNDARY SURVEY CONDUCTED BY DAHL, ROBINS & ASSOCIATES, INC. PROJECT No. 07076 SIGNED BY JUAN N. LOMELI DATED JULY 24, 2007.
- ([2]) DATA REFER TO BARKLEY LOT SPLIT No. 2 AS RECORDED IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., YUMA COUNTY, ARIZONA.
- NEW LOT NUMBER
- EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R.O. YUMA COUNTY RECORDER'S OFFICE

KEY NOTES

- 1 1" NON-ACCESS EASEMENT
- 2 8' UTILITY & C&IV EASEMENT
- 3 20' FRONT YARD SET BACK LINE
- 4 10' SIDE YARD SET BACK LINE

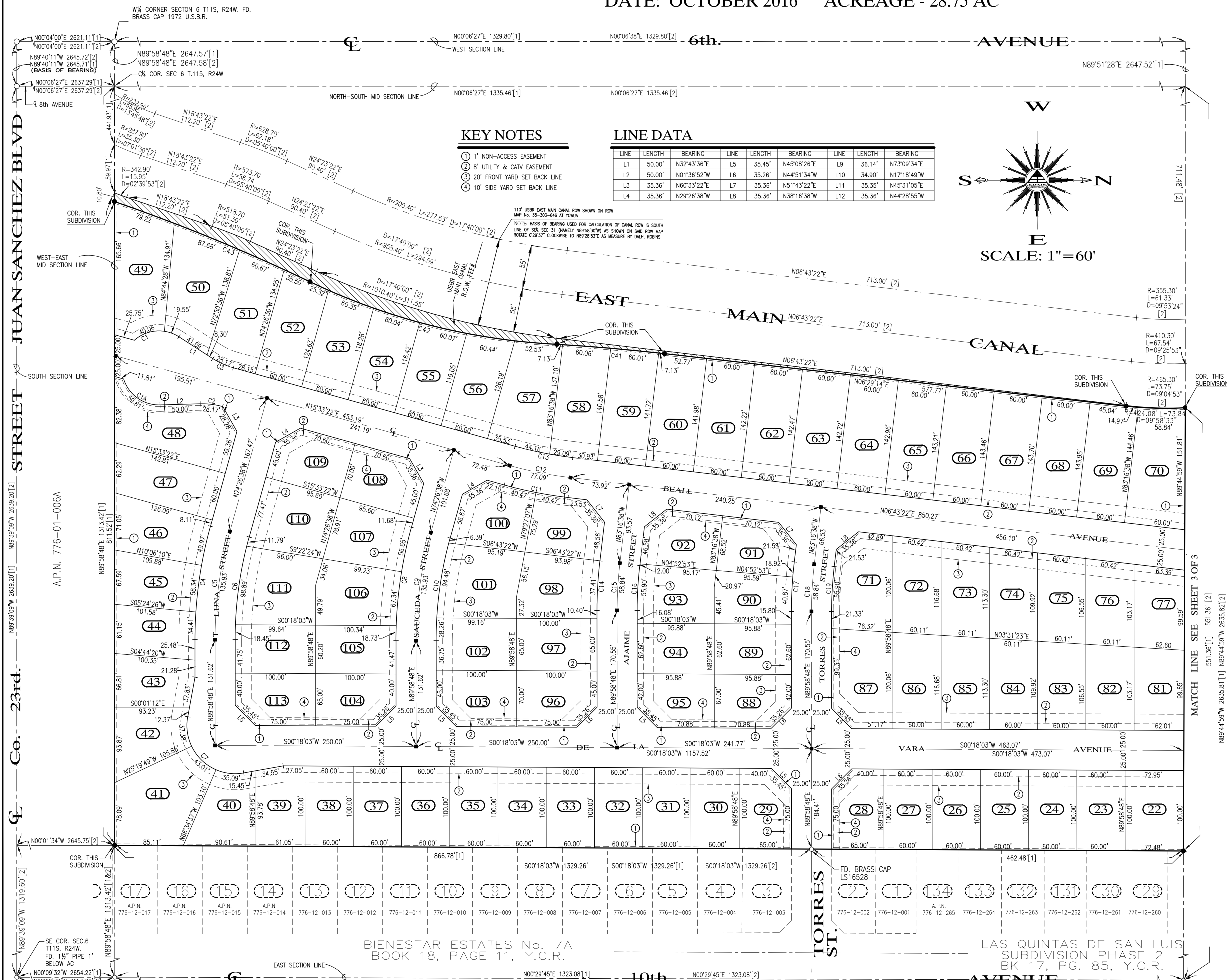
LINE DATA

LINE	LENGTH	BEARING	LINE	LENGTH	BEARING	LINE	LENGTH	BEARING
L1	50.00'	N32°43'36"E	L5	35.45'	N45°08'26"E	L9	36.14'	N73°09'34"E
L2	50.00'	N01°36'52"W	L6	35.26'	N44°51'34"W	L10	34.90'	N17°18'49"W
L3	35.36'	N60°33'22"E	L7	35.36'	N51°33'22"E	L11	35.35'	N45°31'05"E
L4	35.36'	N29°26'38"W	L8	35.36'	N38°16'38"W	L12	35.36'	N44°28'55"W



CURVE DATA

CURVE	DELTA	CHORD DIRECTION	CHORD	TANGENT	RADIUS	LENGTH
C1	41°31'24"	N20°45'42"W	32.61'	17.44'	46.00'	33.34'
C1A	74°15'08"	N35°30'10"E	55.52'	34.82'	46.00'	59.61'
C2	17°10'14"	N06°58'15"E	28.07'	14.19'	94.00'	28.17'
C3	17°10'14"	N23°54'6"E	28.07'	14.19'	94.00'	28.17'
C4	15°33'22"	N82°13'19"W	142.10'	71.71'	525.00'	142.54'
C5	15°33'22"	N82°13'19"W	135.51'	68.39'	500.00'	135.93'
C6	15°33'22"	N82°13'19"W	128.73'	64.97'	475.00'	129.13'
C7	11°02'27"	N45°8'26"E	98.57'	86.42'	60.00'	115.67'
C8	15°34'34"	S82°13'19"E	142.28'	71.80'	525.00'	142.72'
C9	15°34'34"	S82°13'19"E	135.51'	68.39'	500.00'	135.93'
C10	15°34'34"	S82°13'19"E	128.77'	64.97'	475.00'	129.13'
C11	08°50'00"	N11°08'22"E	80.86'	40.55'	525.00'	80.94'
C12	08°50'00"	N11°08'22"E	77.01'	38.62'	500.00'	77.01'
C13	08°50'00"	N11°08'22"E	73.16'	36.69'	475.00'	73.23'
C14	06°44'34"	S86°38'55"E	61.75'	30.93'	525.00'	61.78'
C15	06°44'34"	S86°38'55"E	58.81'	29.46'	500.00'	58.84'
C16	06°44'34"	S86°38'55"E	55.87'	27.98'	475.00'	55.90'
C17	06°44'34"	S86°38'55"W	61.75'	30.93'	525.00'	61.78'
C18	06°44'34"	S86°38'55"E	58.81'	29.46'	500.00'	58.84'
C19	06°44'34"	S86°38'55"E	55.70'	27.90'	475.00'	55.73'
C20	63°22'27"	N31°23'11"W	157.58'	92.60'	150.00'	165.91'
C21	63°22'27"	N31°23'11"W	131.32'	77.16'	125.00'	138.26'
C22	63°22'27"	N31°23'11"W	105.06'	61.73'	100.00'	110.61'
C23	19°52'32"	N15°10'10"E	131.88'	66.61'	380.18'	131.88'
C24	19°52'32"	N15°10'10"E	139.85'	70.99'	405.18'	140.55'
C25	19°52'32"	N15°10'10"E	148.48'	75.37'	430.18'	149.23'
C26	28°58'44"	N14°47'26"E	100.08'	51.68'	200.00'	101.16'
C27	28°58'44"	N14°47'26"E	112.59'	58.15'	225.00'	113.80'
C28	28°58'44"	N14°47'26"E	125.10'	64.60'	250.00'	126.45'
C29	08°10'13"	N04°23'10"E	82.02'	41.12'	575.69'	82.09'
C30	08°10'13"	N04°23'10"E	78.46'	39.33'	550.69'	78.53'
C31	08°10'13"	N04°23'10"E	74.90'	37.55'	525.69'	74.96'
C32	06°04'56"	N11°30'45"E	149.22'	74.72'	1406.41'	149.29'
C33	06°04'56"	N11°30'45"E	146.57'	73.39'	1381.41'	146.64'
C34	06°04'56"	N11°30'45"E	143.92'	72.06'	1356.41'	143.99'
C35	32°40'05"	N01°46'50"W	146.75'	76.46'	260.90'	148.75'
C36	32°40'05"	N01°46'50"W	160.81'	83.79'	285.90'	163.00'
C37	32°40'05"	N01°46'50"W	174.87'	91.11'	310.90'	177.26'
C38	18°37'56"	N08°47'55"W	102.89'	52.13'	317.79'	103.34'
C39	18°37'56"	N08°47'55"W	94.79'	48.03'	292.79'	95.21'
C40	18°37'56"	N08°47'55"W	86.70'	43.93'	267.79'	87.08'
C41	03°05'14"	N04°57'38"E	134.42'	67.23'	2494.90'	134.44'
C42	22°39'48"	N14°13'13"E	316.68'	161.49'	805.84'	318.75'
C43	06°31'16"	N22°18'56"E	262.93'	131.68'	2311.42'	263.08'
C44	40°44'54"	N08°01'28"W	187.88'	100.21'	269.83'	191.90'
C45	05°27'51"	N11°34'41"E	146.39'	73.28'	1535.53'	146.44'

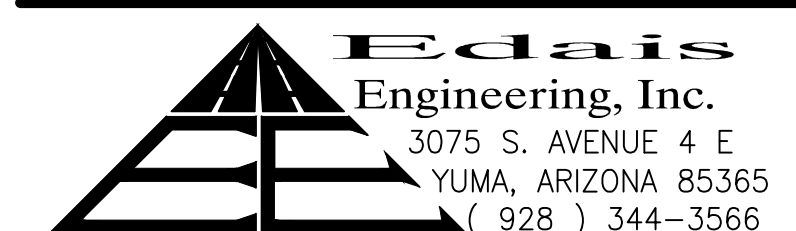


MATCH LINE SEE SHEET 3 OF 3

BIENESTAR ESTATES No. 7A
BOOK 18, PAGE 11, Y.C.R.

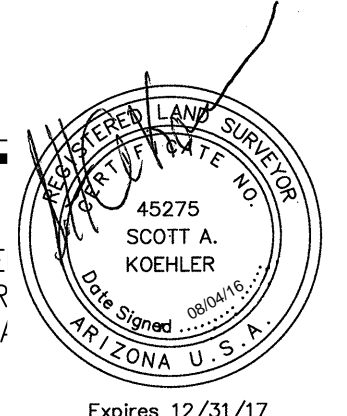
LAS QUINTAS DE SAN LUIS
SUBDIVISION PHASE 2
BK 17, PG. 85, Y.C.R.

PREPARED BY:



SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM A LAND SURVEYOR LISTED ON THE ROSTER OF ACTIVE REGISTRANTS BY THE STATE BOARD OF TECHNICAL REGISTRATION IN ARIZONA AND THAT THIS PROJECT CONSISTING OF FOURTEEN (14) SHEETS CORRECTLY REPRESENTS A SURVEY MADE UNDER MY SUPERVISION DURING JULY 2016. THAT ALL MONUMENTS SHOWN HEREON ACTUALLY EXIST AND THEIR POSITIONS ARE CORRECTLY SHOWN.

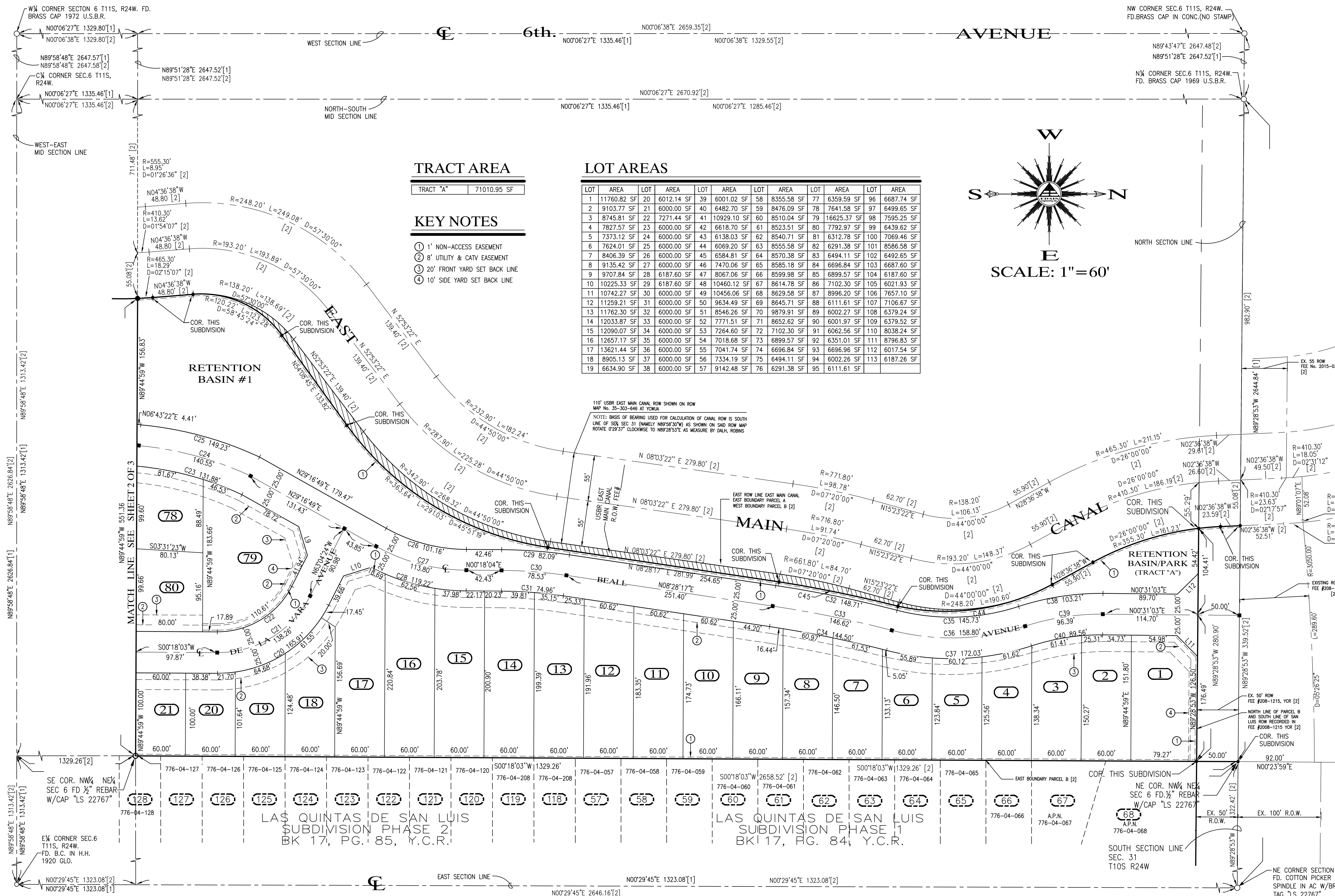


Expires 12/31/17

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

A SUBDIVISION OF THE SOUTHWEST QUARTER OF THE NORTHEAST QUARTER LYING EAST MAIN CANAL AND PARCEL B OF THE BARKLEY LOT SPLIT No.2 AS RECORDED IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., BEING A PORTION OF GOVERNMENT LOT 2, ALSO BEING A PORTION OF THE NORTHWEST QUARTER OF THE NORTHEAST QUARTER, TOGETHER IN SECTION 6, TOWNSHIP 11 SOUTH, RANGE 24 WEST, GILA AND SALT RIVER BASE AND MERIDIAN, YUMA COUNTY, ARIZONA

DATE: OCTOBER 2016 ACREAGE - 28.75 AC



TRACT AREA

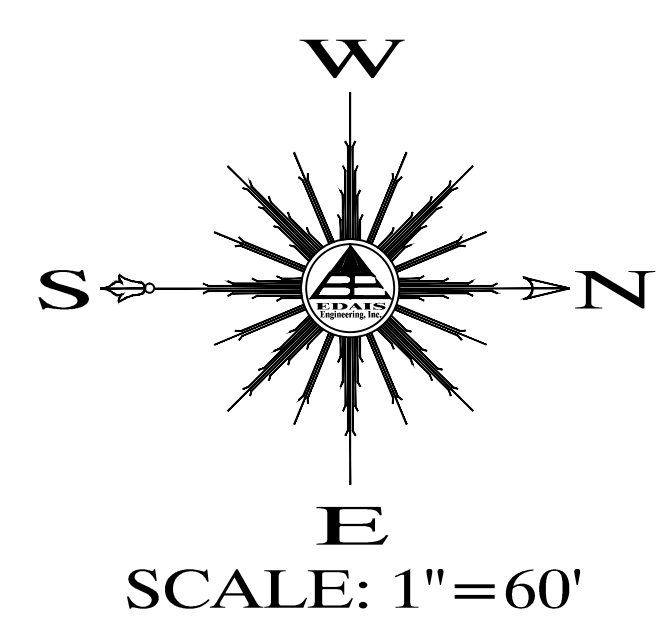
TRACT "A"	71010.95 SF
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KEY NOTES

- ① 1' NON-ACCESS EASEMENT
- ② 8' UTILITY & CATV EASEMENT
- ③ 20' FRONT YARD SET BACK LINE
- ④ 10' SIDE YARD SET BACK LINE

LOT AREAS

LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA	LOT	AREA
1	11760.82 SF	20	6012.14 SF	39	6001.02 SF	58	8355.58 SF	77	6359.59 SF	96	6687.74 SF		
2	9103.77 SF	21	6000.00 SF	40	8482.70 SF	59	8476.09 SF	78	7641.58 SF	97	6499.65 SF		
3	8745.81 SF	22	7271.44 SF	41	10929.10 SF	60	8510.04 SF	79	16625.37 SF	98	7595.25 SF		
4	7827.57 SF	23	6000.00 SF	42	6618.70 SF	61	8523.51 SF	80	7792.97 SF	99	6439.62 SF		
5	7373.12 SF	24	6000.00 SF	43	6138.03 SF	62	8540.71 SF	81	6312.78 SF	100	7069.46 SF		
6	7624.01 SF	25	6000.00 SF	44	6069.20 SF	63	8555.58 SF	82	6291.38 SF	101	8586.58 SF		
7	8406.39 SF	26	6000.00 SF	45	6584.81 SF	64	8570.38 SF	83	6494.11 SF	102	6492.65 SF		
8	9135.42 SF	27	6000.00 SF	46	7470.06 SF	65	8585.18 SF	84	6696.84 SF	103	6687.60 SF		
9	9707.84 SF	28	6187.60 SF	47	8067.06 SF	66	8599.98 SF	85	6899.57 SF	104	6187.60 SF		
10	10225.33 SF	29	6187.60 SF	48	10460.12 SF	67	8614.78 SF	86	7102.30 SF	105	6021.93 SF		
11	10742.27 SF	30	6000.00 SF	49	10456.06 SF	68	8629.58 SF	87	8996.20 SF	106	7657.10 SF		
12	11259.21 SF	31	6000.00 SF	50	9634.49 SF	69	8645.71 SF	88	6111.61 SF	107	7106.67 SF		
13	11762.30 SF	32	6000.00 SF	51	8546.26 SF	70	9879.91 SF	89	6002.27 SF	108	6379.24 SF		
14	12033.87 SF	33	6000.00 SF	52	7771.51 SF	71	8652.62 SF	90	6001.97 SF	109	6379.52 SF		
15	12090.07 SF	34	6000.00 SF	53	7264.60 SF	72	7102.30 SF	91	6062.56 SF	110	8038.24 SF		
16	12657.17 SF	35	6000.00 SF	54	7018.68 SF	73	6899.57 SF	92	6351.01 SF	111	8796.83 SF		
17	13621.44 SF	36	6000.00 SF	55	7041.74 SF	74	6696.84 SF	93	6696.96 SF	112	6017.54 SF		
18	8905.13 SF	37	6000.00 SF	56	7334.19 SF	75	6494.11 SF	94	6002.26 SF	113	6187.26 SF		
19	6634.90 SF	38	6000.00 SF	57	9142.48 SF	76	6291.38 SF	95	6111.61 SF				



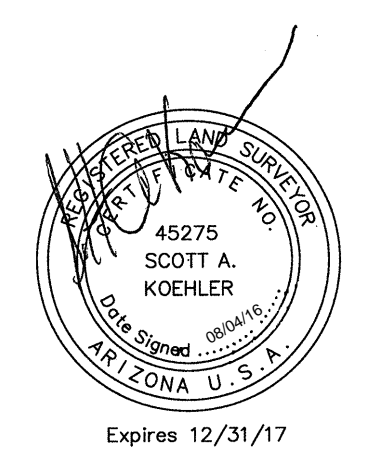
LEGEND

- CENTERLINE
- BOUNDARY LINE
- RIGHT OF WAY LINE
- EXISTING LOTS
- NEW PROPERTY LINE
- FOUND MONUMENT (TYPE AS SHOWN)
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- NEW SUBDIVISION BOUNDARY MONUMENT PER YUMA COUNTY STD. No. 4-030
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- ([1]) DATA REFER TO BARKLEY LOT SPLIT No. 2 AS SHOWN IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., YUMA COUNTY, ARIZONA.
- ([2]) DATA REFER TO BARKLEY LOT SPLIT No. 2 AS RECORDED IN BOOK 67 OF PLATS, PAGE 27, Y.C.R., YUMA COUNTY, ARIZONA.
- NEW LOT NUMBER
- EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R.O. YUMA COUNTY RECORDER'S OFFICE

PREPARED BY:

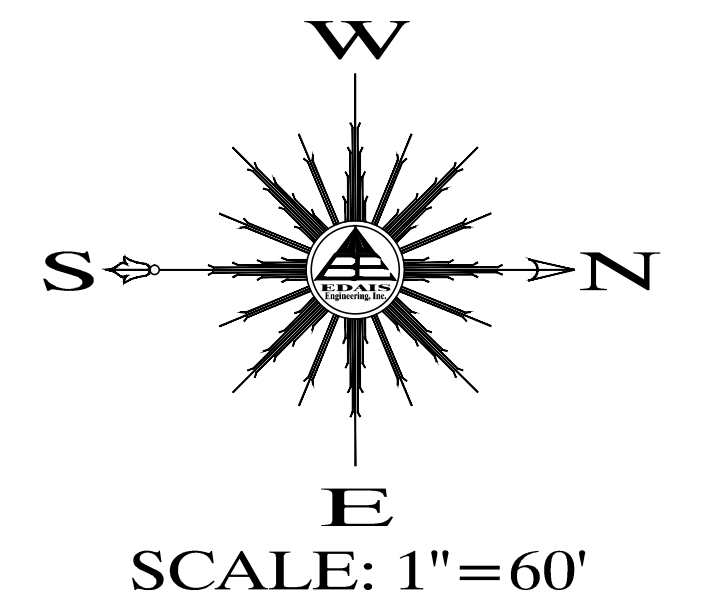
SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT I AM A LAND SURVEYOR LISTED ON THE ROSTER OF ACTIVE REGISTRANTS BY THE STATE BOARD OF TECHNICAL REGISTRATION OF ARIZONA AND THAT THIS PROJECT CONSISTING OF FOURTEEN (14) SHEETS CORRECTLY REPRESENTS A SURVEY MADE UNDER MY SUPERVISION DURING JULY 2016. THAT ALL MONUMENTS SHOWN HEREON ACTUALLY EXIST AND THEIR POSITIONS ARE CORRECTLY SHOWN.



KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
- ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL (B/6)
- ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL (C/6)
- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (C/6)
- ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL (F/6)
- ⑦ NEW CROWN TRANSITION AS SHOWN
- ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (E/6)
- ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL (E/6)
- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6)
- ⑪ NEW STREET LIGHT BY APS
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6) STD. No. 4-080
- ⑬ NEW KEYSTONE RETAINING WALL - SEE DETAILS ON SHEET 7A
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL (O/6) STD. 4-030
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)
- ⑯ LOCATION OF 18' DRIVEWAY
- ⑰ END KEYSTONE RETAINING WALL & BEGIN CMU WALL
- ⑱ NEW CONCRETE SPILLWAY - SEE DETAIL (P/7)
- ⑲ NEW STEEL TUBE FENCE - SEE DETAIL (O/7)
- ⑳ CURB TRANSITION FROM VERTICAL CURB TO ROLL CURB - SEE DETAIL (E/6)
- ㉑ NEW LIFT STATION FENCING & GATE - SEE DETAIL (N/7)
- ㉒ NEW 15' CROSS VALLEY GUTTER - SEE DETAIL (E/6)



A.P.N. 776-10-001

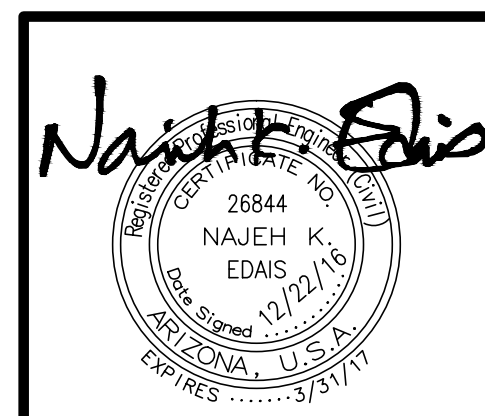
LEGEND

- CENTERLINE
- BOUNDARY LINE
- - - EXISTING LOTS
- - - EXISTING CMU WALL
- - - EXISTING DIRT ROAD
- - - EXISTING ASPHALT
- - - NEW CMU WALL
- FOUND MONUMENT (TYPE AS SHOWN)
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- T.O.W. INDICATE TOP OF WALL ELEVATION
- T.F. INDICATE TOP OF FOOTING ELEVATION
- ([1]) DATA REFER TO BARKLEY PROPERTY - SAN LUIS, BOUNDARY SURVEY CONDUCTED BY DAHL, ROBINS & ASSOCIATES, INC. PROJECT No. 07076 SIGNED BY JUAN N. LOMELI DATED JULY 24, 2007.
- ([2]) DATA REFER TO BARKLEY LOT SPLIT No. 2 AS RECORDED IN BOOK ___ OF PLATS, PAGE ___, Y.C.R.O., YUMA COUNTY, ARIZONA.
- (133.0) EXISTING NATURAL SOIL ELEVATION
- (A-90.00) EXISTING ASPHALT ELEVATION
- (RD-103.20) EXISTING ROAD ELEVATION
- (C-135.50) EXISTING CURB & GUTTER ELEVATION
- (SW-135.17) EXISTING SIDEWALK ELEVATION
- (CRN-106.86) EXISTING CROWN ELEVATION
- 120 CONTOUR LINE
- EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R. YUMA COUNTY RECORDER



BIENESTAR ESTATES No. 7A
BOOK 18, PAGE 11, Y.C.R.

LAS QUINTAS DE SAN LUIS
SUBDIVISION PHASE 2
BK 17, PG. 85, Y.C.R.



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**LAS QUINTAS DE SAN LUIS 2
SUBDIVISION**

PAVING & GRADING PLAN

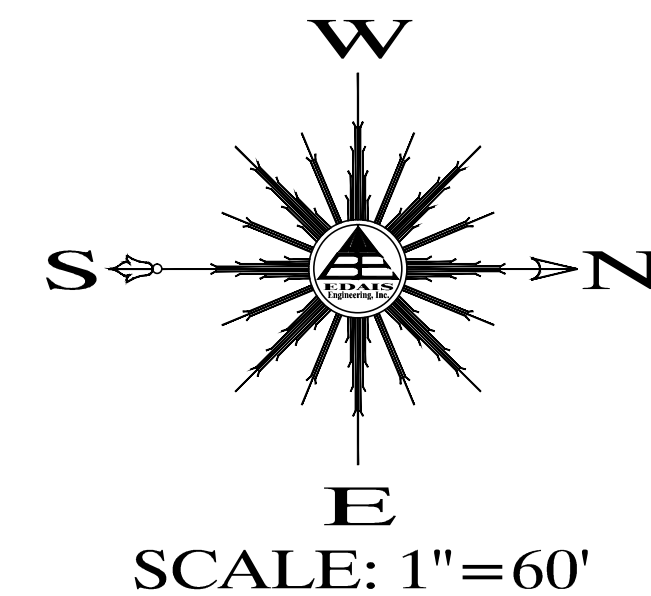
SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: DEC '16	DRAWN BY: STAFF	JOB NO: 14-015

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EMAIL: najeh@edaisgroup.com

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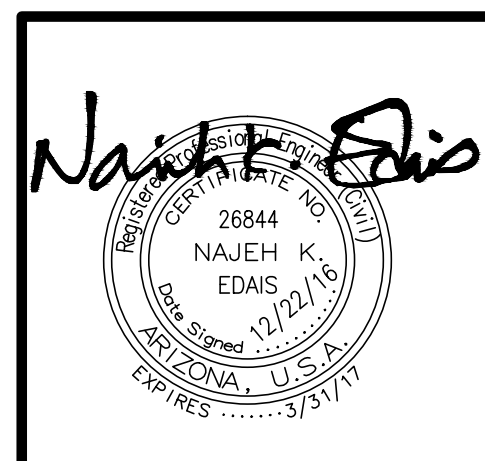
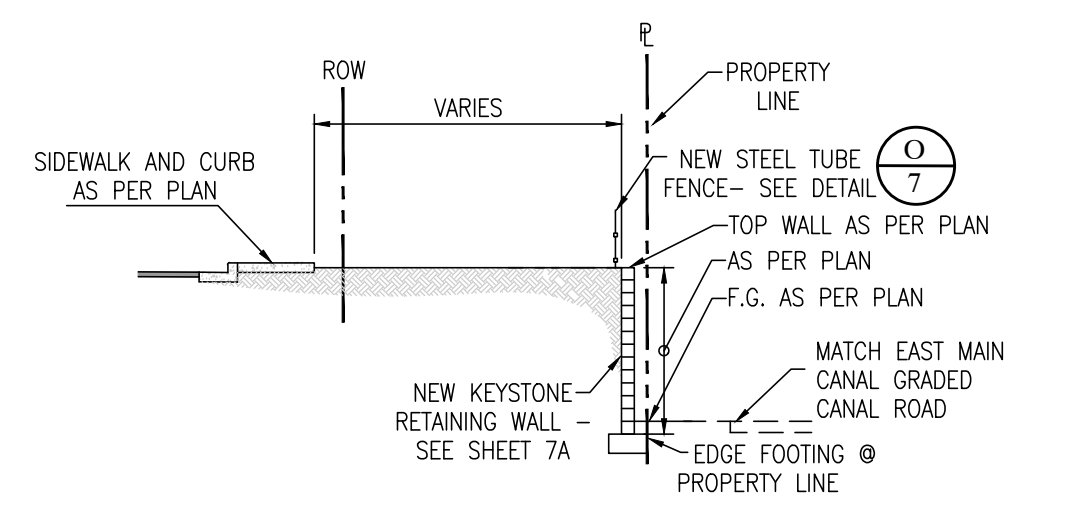
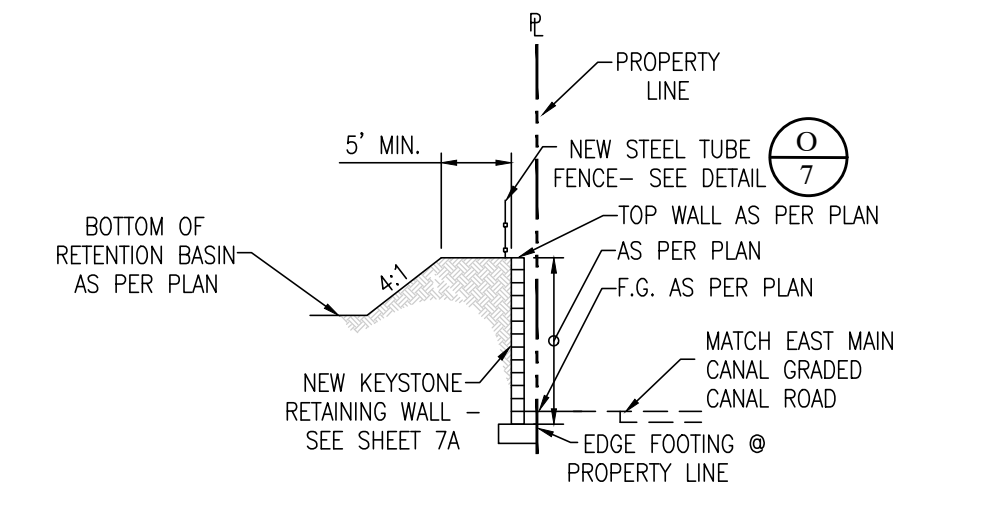
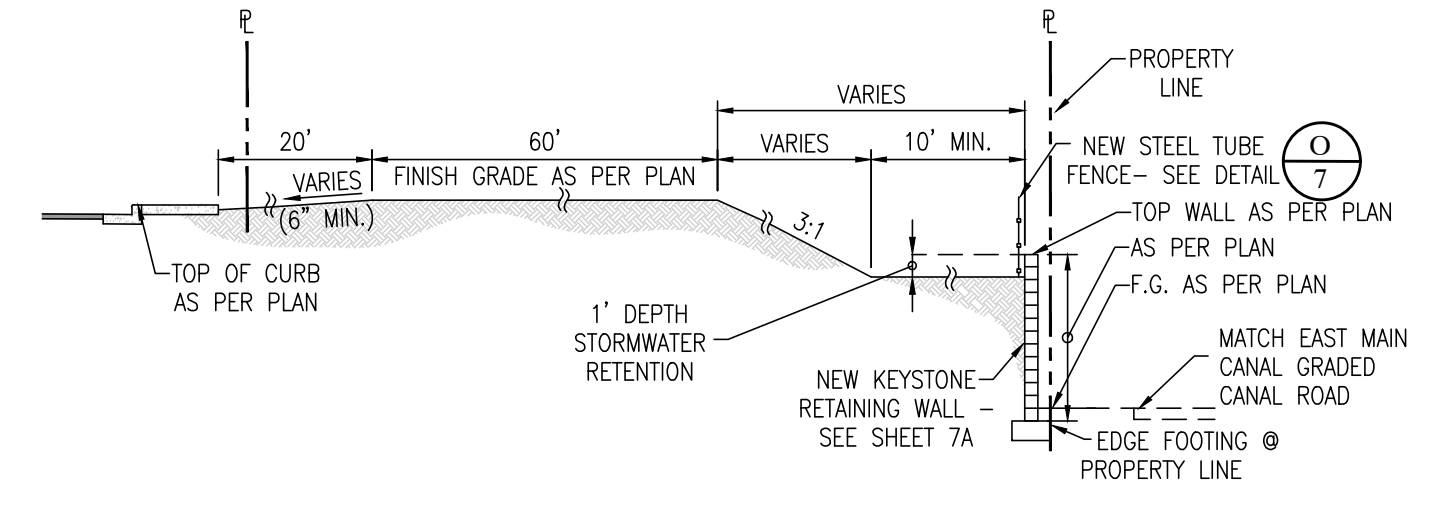
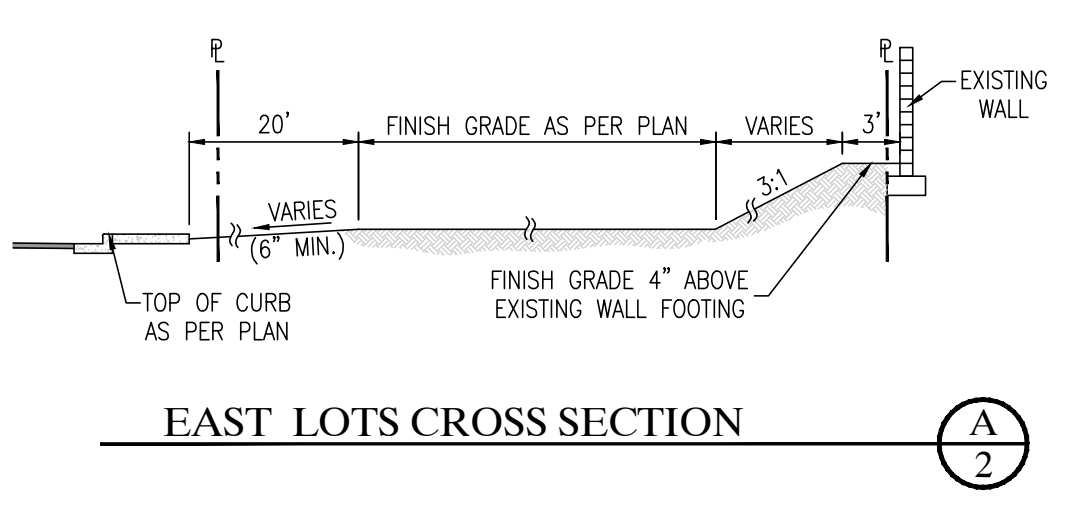
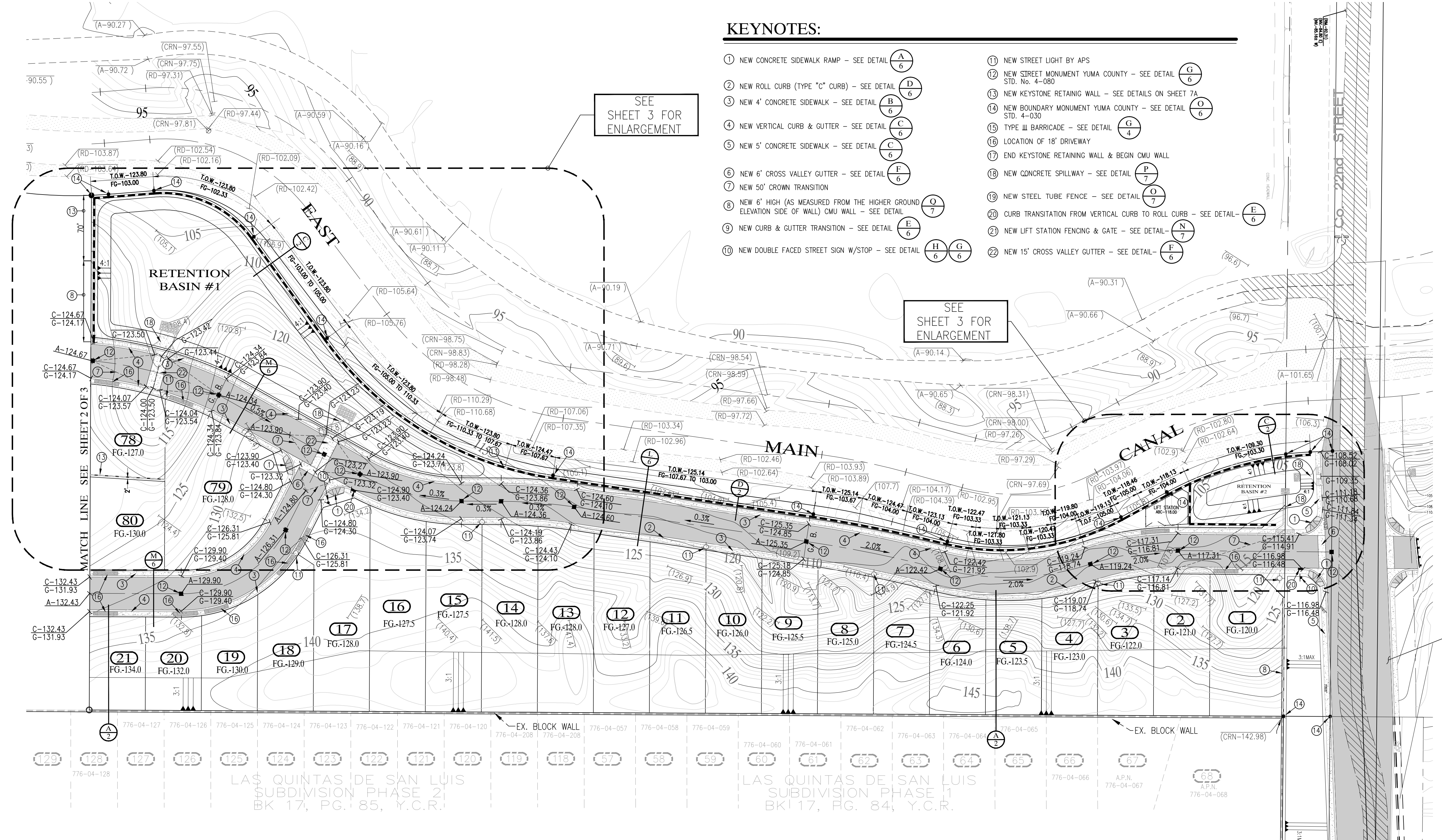


LEGEND

- CENTERLINE
- BOUNDARY LINE
- EXISTING LOTS
- EXISTING CMU WALL
- EXISTING DIRT ROAD
- EXISTING ASPHALT
- NEW CMU WALL
- FOUND MONUMENT (TYPE AS SHOWN)
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- T.O.W. INDICATE TOP OF WALL ELEVATION
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- (C-135.50) EXISTING CURB & GUTTER ELEVATION
- (G-135.57) EXISTING SIDEWALK ELEVATION
- (SW-135.52) EXISTING CROWN ELEVATION
- (CRN-106.86) EXISTING CONTOUR LINE
- 120 EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R. YUMA COUNTY RECORDER
- A-122.50 NEW ASPHALT ELEVATION
- C-135.50 NEW CURB & GUTTER ELEVATION
- G-135.17 NEW SLOPE
- 0.2% NEW SLOPE

KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
- ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL (B/6)
- ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL (C/6)
- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (C/6)
- ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL (F/6)
- ⑦ NEW 50' CROWN TRANSITION
- ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (O/7)
- ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL (E/6)
- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6, G/6)
- ⑪ NEW STREET LIGHT BY APS
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6) STD. No. 4-080
- ⑬ NEW KEYSTONE RETAINING WALL - SEE DETAILS ON SHEET 7A
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL (O/6) STD. 4-030
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)
- ⑯ LOCATION OF 18' DRIVEWAY
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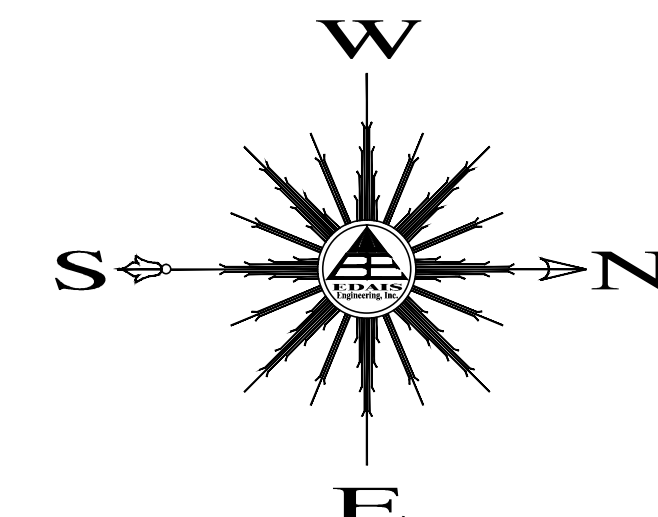
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

PAVING & GRADING PLAN

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 30725 S. AVE. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najah@Edaisgroup.com

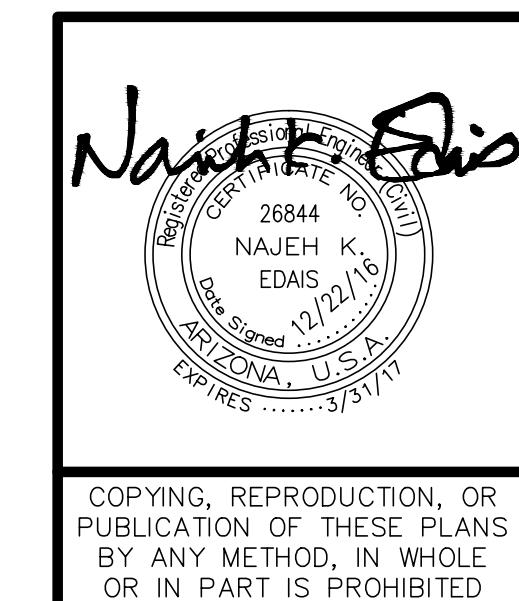
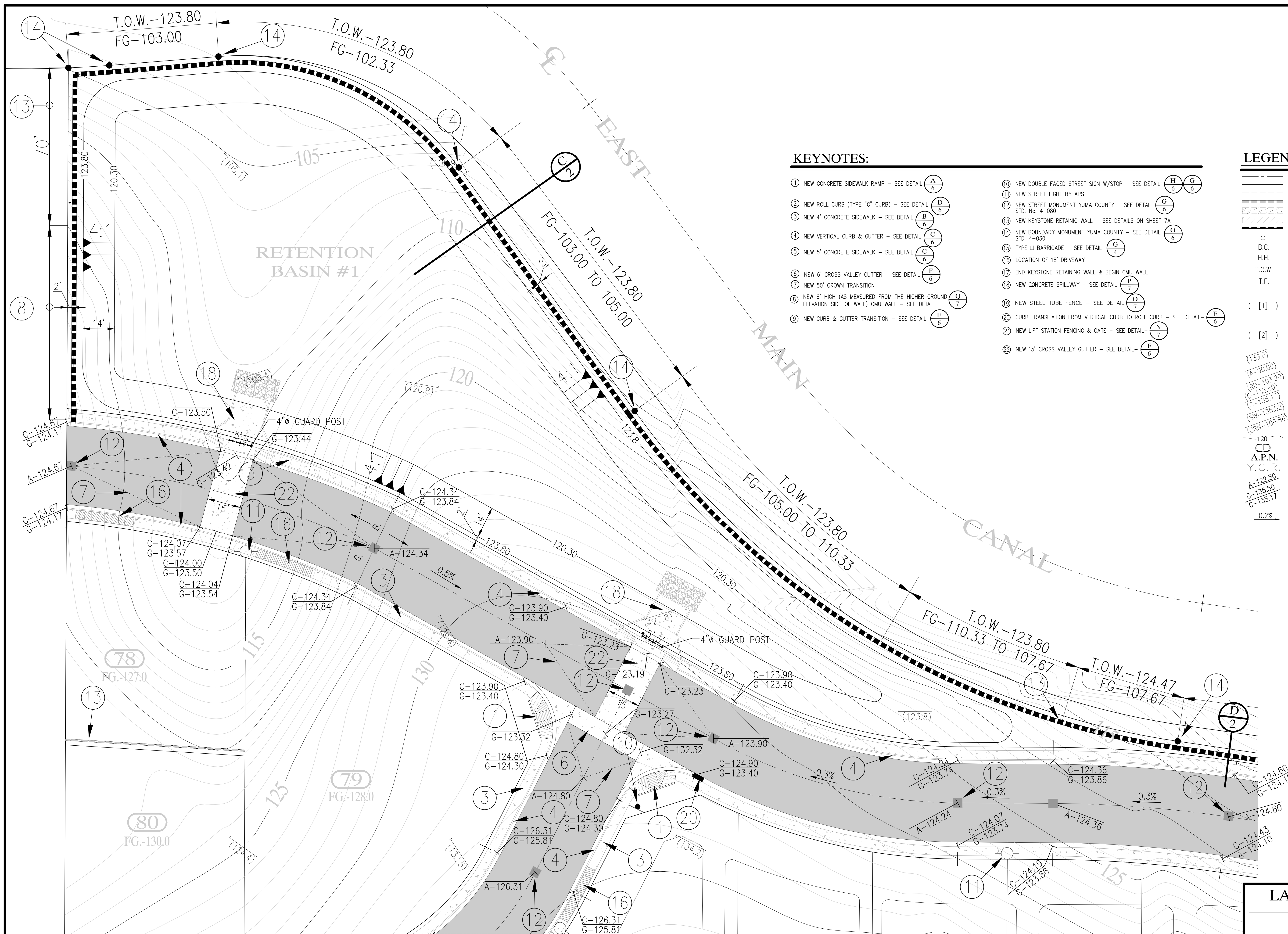


SCALE: 1"=20'

KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
- ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL (B/6)
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- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (C/6)
- ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL (F/6)
- ⑦ NEW 50' CROWN TRANSITION
- ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (O/7)
- ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL (E/6)
- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6) (G/6)
- ⑪ NEW STREET LIGHT BY APS
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6) STD. No. 4-080
- ⑬ NEW KEystone RETAINING WALL - SEE DETAILS ON SHEET 7A
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL (O/6) STD. 4-030
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)
- ⑯ LOCATION OF 18' DRIVEWAY
- ⑰ END KEystone RETAINING WALL & BEGIN CMU WALL
- ⑱ NEW CONCRETE SPILLWAY - SEE DETAIL (P/7)
- ⑲ NEW STEEL TUBE FENCE - SEE DETAIL (O/7)
- ⑳ CURB TRANSITION FROM VERTICAL CURB TO ROLL CURB - SEE DETAIL (E/6)
- ㉑ NEW LIFT STATION FENCING & GATE - SEE DETAIL (N/7)
- ㉒ NEW 15' CROSS VALLEY GUTTER - SEE DETAIL (F/6)

- LEGEND**
- CENTERLINE
 - BOUNDARY LINE
 - EXISTING LOTS
 - EXISTING CMU WALL
 - EXISTING DIRT ROAD
 - EXISTING ASPHALT
 - NEW CMU WALL
 - FOUND MONUMENT (TYPE AS SHOWN)
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 - (SW-135.52) EXISTING CROWN ELEVATION
 - (CRW-106.80)
 - 120 EXISTING CONTOUR LINE
 - EXISTING LOT NUMBER
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 - C-135.50 NEW CURB & GUTTER ELEVATION
 - G-135.17
 - 0.2% NEW SLOPE



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LAS QUINTAS DE SAN LUIS 2
SUBDIVISION

PAVING & GRADING PLAN

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DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015

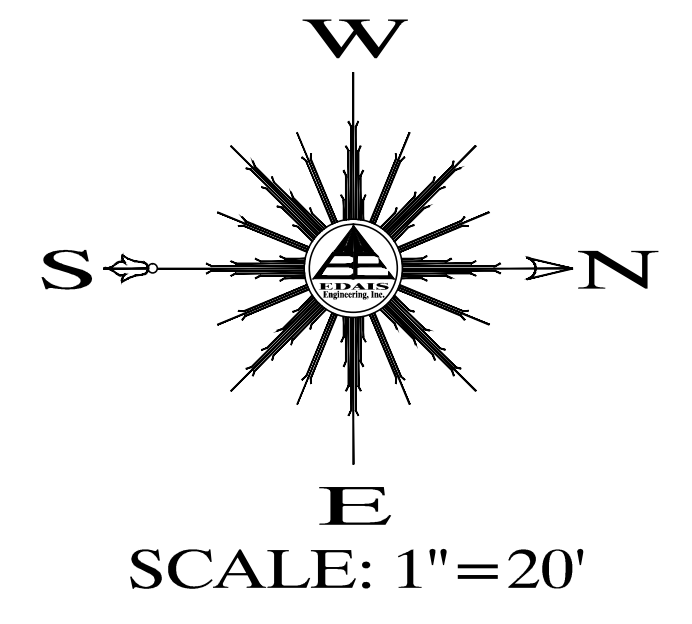
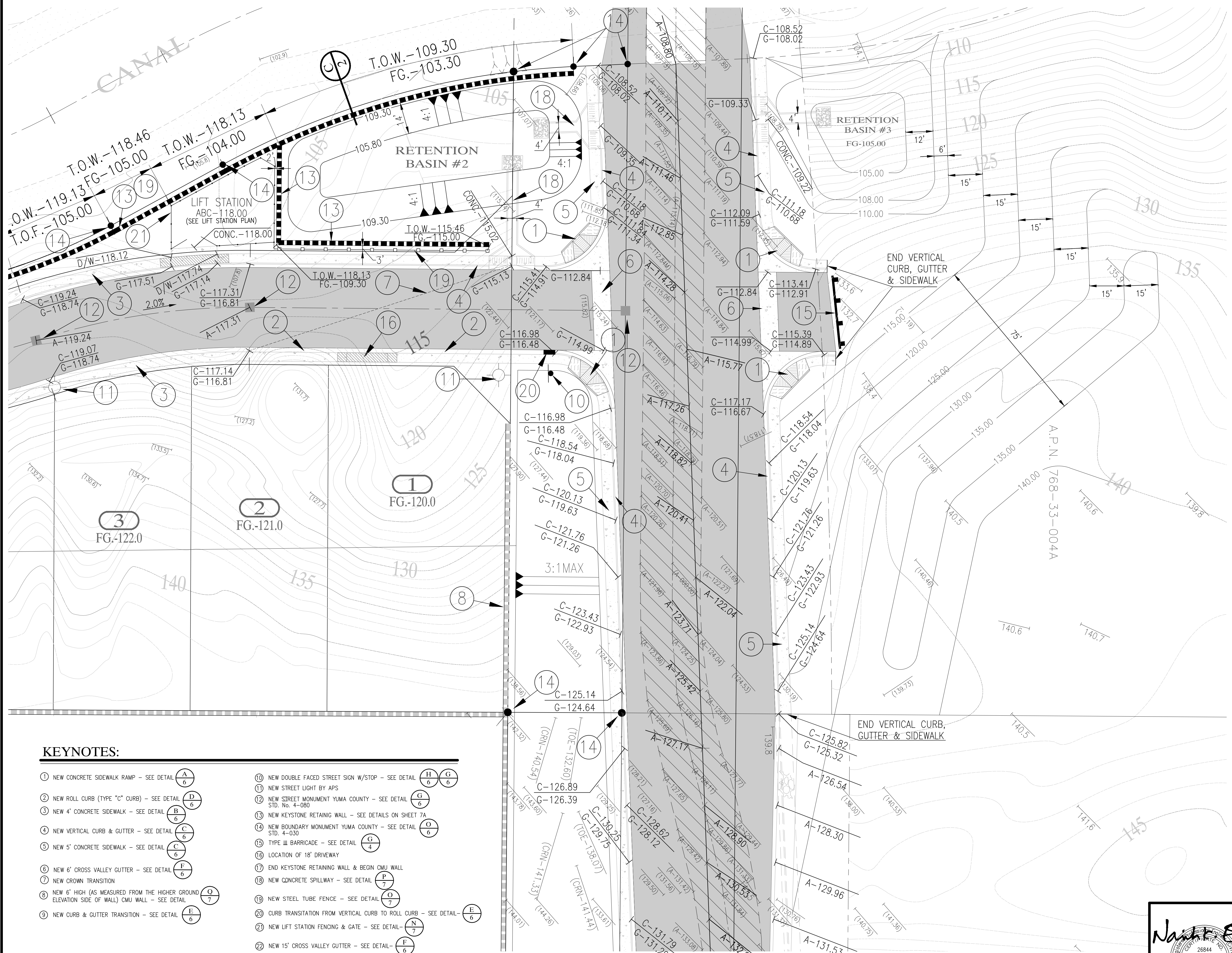
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SHEET

3

CALL TWO WORKING DAYS BEFORE YOU DIG
263-1100
1-800-STAKE-IT
(OUTSIDE MARICOPA COUNTY)



LEGEND

	CENTERLINE
	BOUNDARY LINE
	EXISTING LOTS
	EXISTING CMU WALL
	EXISTING DIRT ROAD
	EXISTING ASPHALT
	NEW CMU WALL
	FOUND MONUMENT (TYPE AS SHOWN)
	INDICATES BRASS CAP
	INDICATE HAND HOLE
	INDICATE TOP OF WALL ELEVATION
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	EXISTING CROWN ELEVATION
	EXISTING CONTOUR LINE
	NEW CONTOUR LINE
	EXISTING LOT NUMBER
	ASSESSOR PARCEL NUMBER
	YUMA COUNTY RECORDER
	NEW ASPHALT ELEVATION
	NEW CURB & GUTTER ELEVATION
	NEW SLOPE

KEYNOTES:

- | | |
|---|--|
| ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL | ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL |
| ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL | ⑪ NEW STREET LIGHT BY APS |
| ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL | ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL STD. No. 4-080 |
| ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL | ⑬ NEW KEYSTONE RETAINING WALL - SEE DETAILS ON SHEET 7A |
| ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL | ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL STD. 4-030 |
| ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL | ⑮ TYPE III BARRICADE - SEE DETAIL |
| ⑦ NEW CROWN TRANSITION | ⑯ LOCATION OF 18' DRIVEWAY |
| ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL | ⑰ END KEYSTONE RETAINING WALL & BEGIN CMU WALL |
| ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL | ⑱ NEW CONCRETE SPILLWAY - SEE DETAIL |
| | ⑲ NEW STEEL TUBE FENCE - SEE DETAIL |
| | ⑳ CURB TRANSITION FROM VERTICAL CURB TO ROLL CURB - SEE DETAIL |
| | ㉑ NEW LIFT STATION FENCING & GATE - SEE DETAIL |
| | ㉒ NEW 15' CROSS VALLEY GUTTER - SEE DETAIL |

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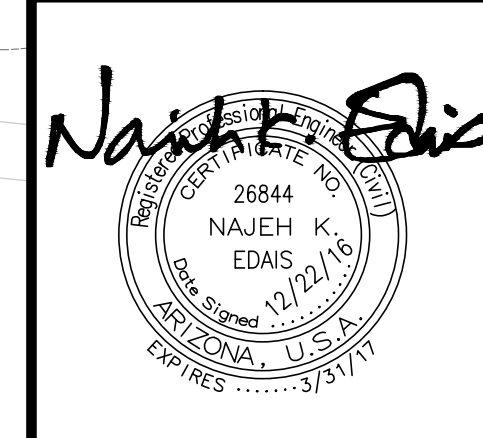
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
PAVING & GRADING PLAN

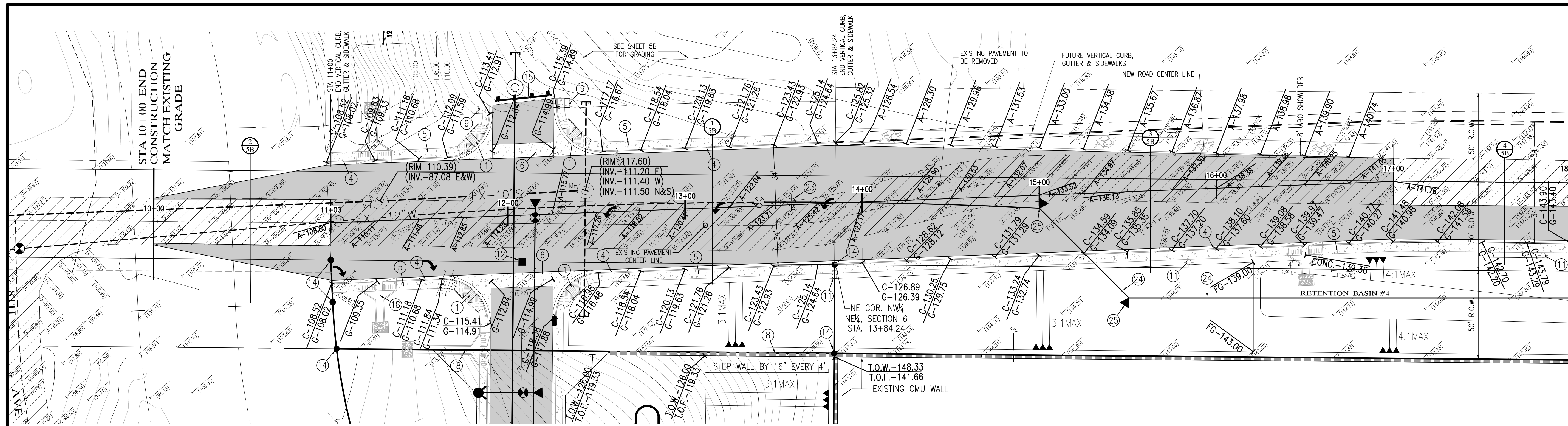
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 DATE: DEC. 16 DRAWN BY: STAFF JOB No. 14-015

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 26844 NAJEH K. EDAS
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 EMAIL: najeh@edaisgroup.com

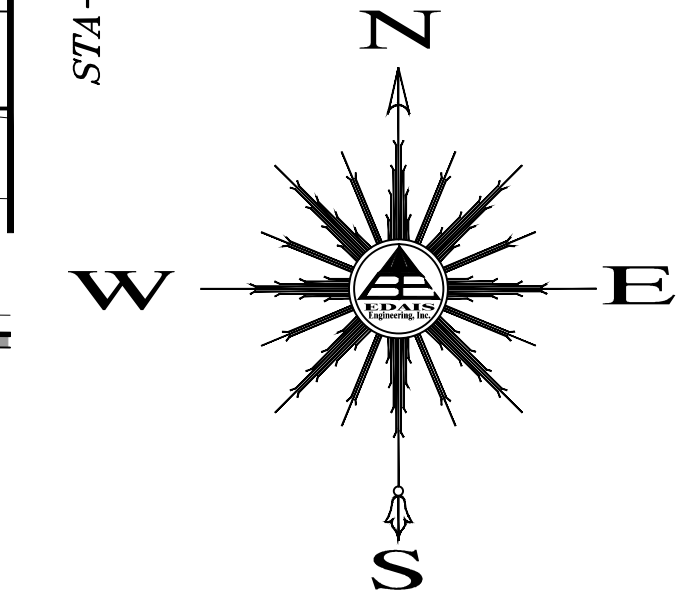
4

CALL TWO WORKING DAYS BEFORE YOU DIG
 263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

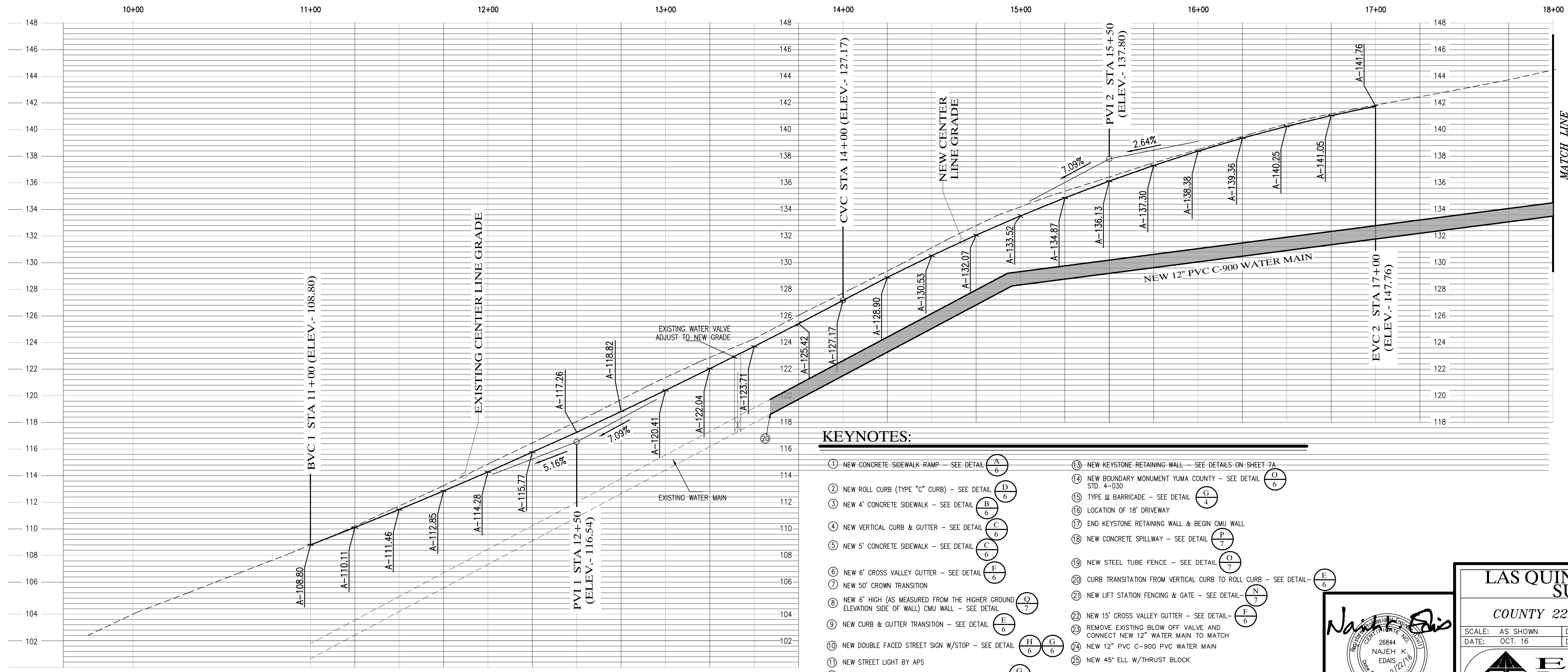




MATCH LINE
STA - 18+00 SEE SHEET 54



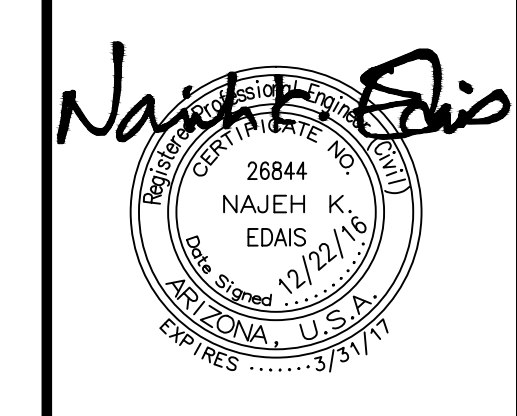
SCALE HORIZ: 1"=30'
SCALE VERT: 1"=4'



MATCH LINE
STA - 18+00 SEE SHEET 54

KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
- ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL (B/6)
- ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL (F/6)
- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (C/6)
- ⑥ NEW 6" CROSS VALLEY GUTTER - SEE DETAIL (E/6)
- ⑦ NEW 50' CROWN TRANSITION
- ⑧ NEW 6" HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (O/7)
- ⑨ NEW CURB & GUTTER TRANSITION - SEE DETAIL (E/6)
- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6) (G/6)
- ⑪ NEW STREET LIGHT BY APS (G/6)
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6) (G/6)
- ⑬ NEW KEYSTONE RETAINING WALL - SEE DETAILS ON SHEET 7A
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL (O/6) (G/6)
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)
- ⑯ LOCATION OF 18' DRIVEWAY
- ⑰ END KEYSTONE RETAINING WALL & BEGIN CMU WALL
- ⑱ NEW CONCRETE SPILLWAY - SEE DETAIL (P/7) (O/7)
- ⑲ NEW STEEL TUBE FENCE - SEE DETAIL (O/7)
- ⑳ CURB TRANSITION FROM VERTICAL CURB TO ROLL CURB - SEE DETAIL (E/6)
- ㉑ NEW LIFT STATION FENCING & GATE - SEE DETAIL (N/7) (E/6)
- ㉒ NEW 15' CROSS VALLEY GUTTER - SEE DETAIL (E/6)
- ㉓ REMOVE EXISTING BLOW OFF VALVE AND CONNECT NEW 12" WATER MAIN TO MATCH
- ㉔ NEW 12" PVC C-900 PVC WATER MAIN
- ㉕ NEW 45' ELL W/THRUST BLOCK



**LAS QUINTAS DE SAN LUIS 2
SUBDIVISION**

COUNTY 22ND STREET IMPROVEMENT

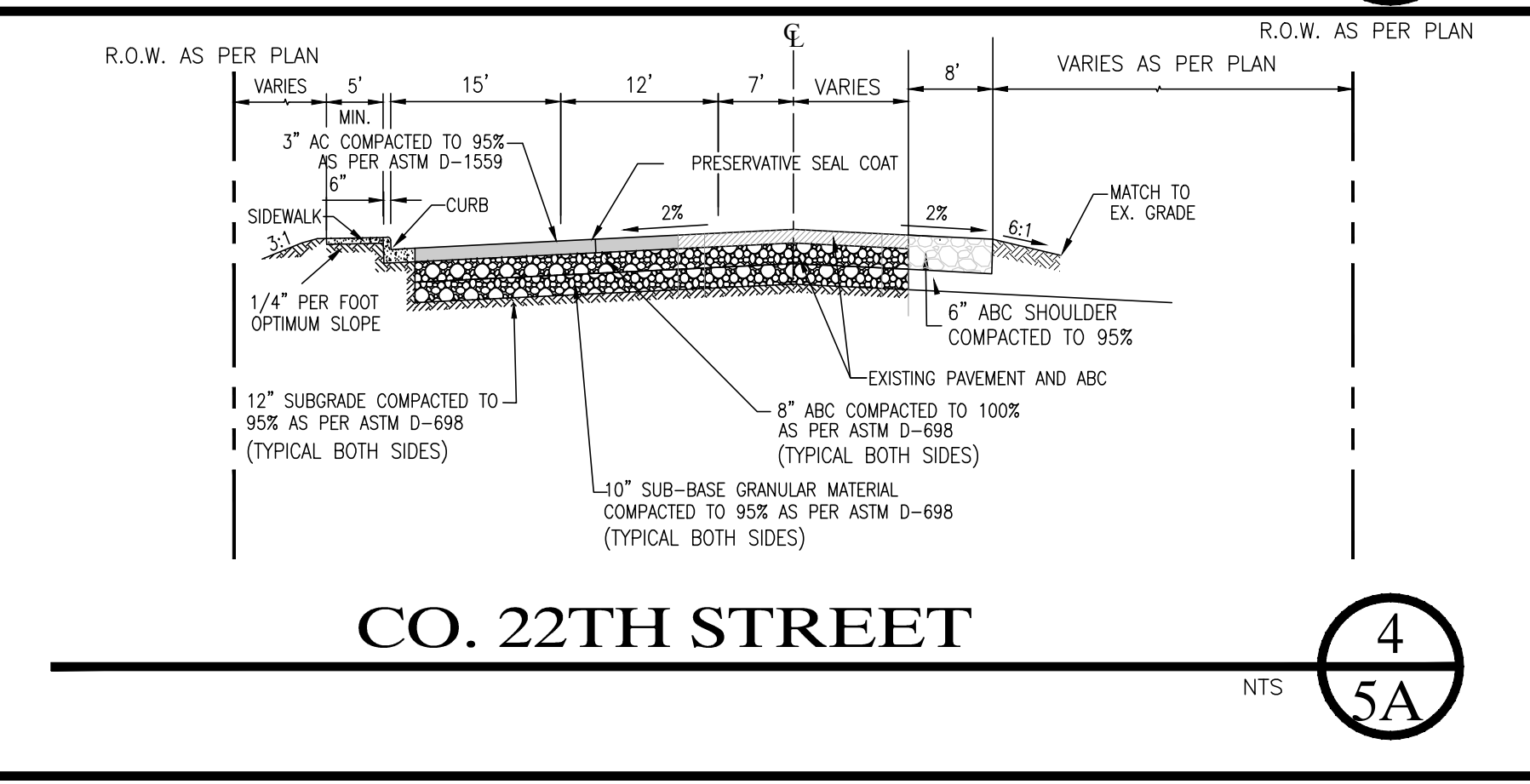
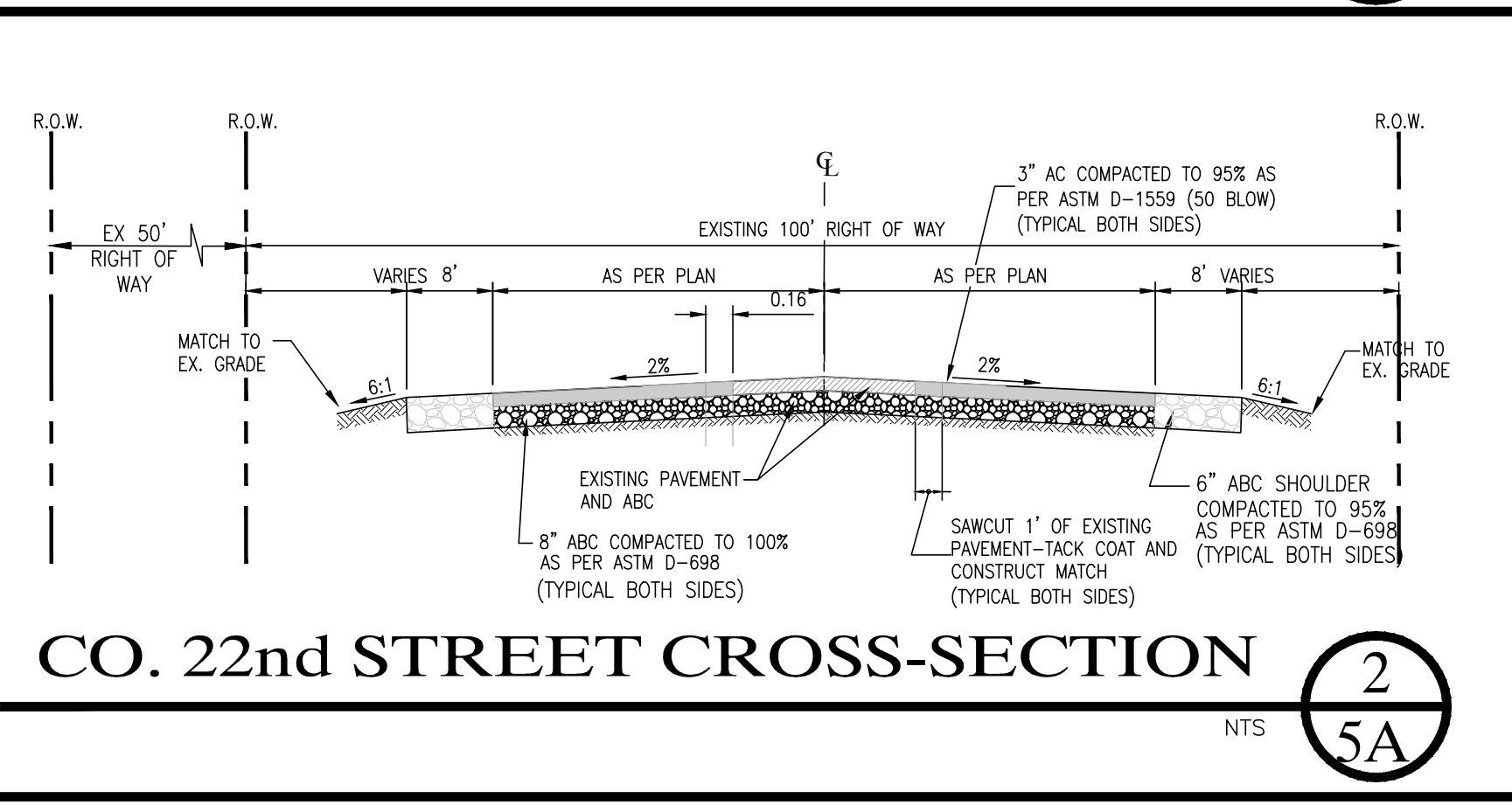
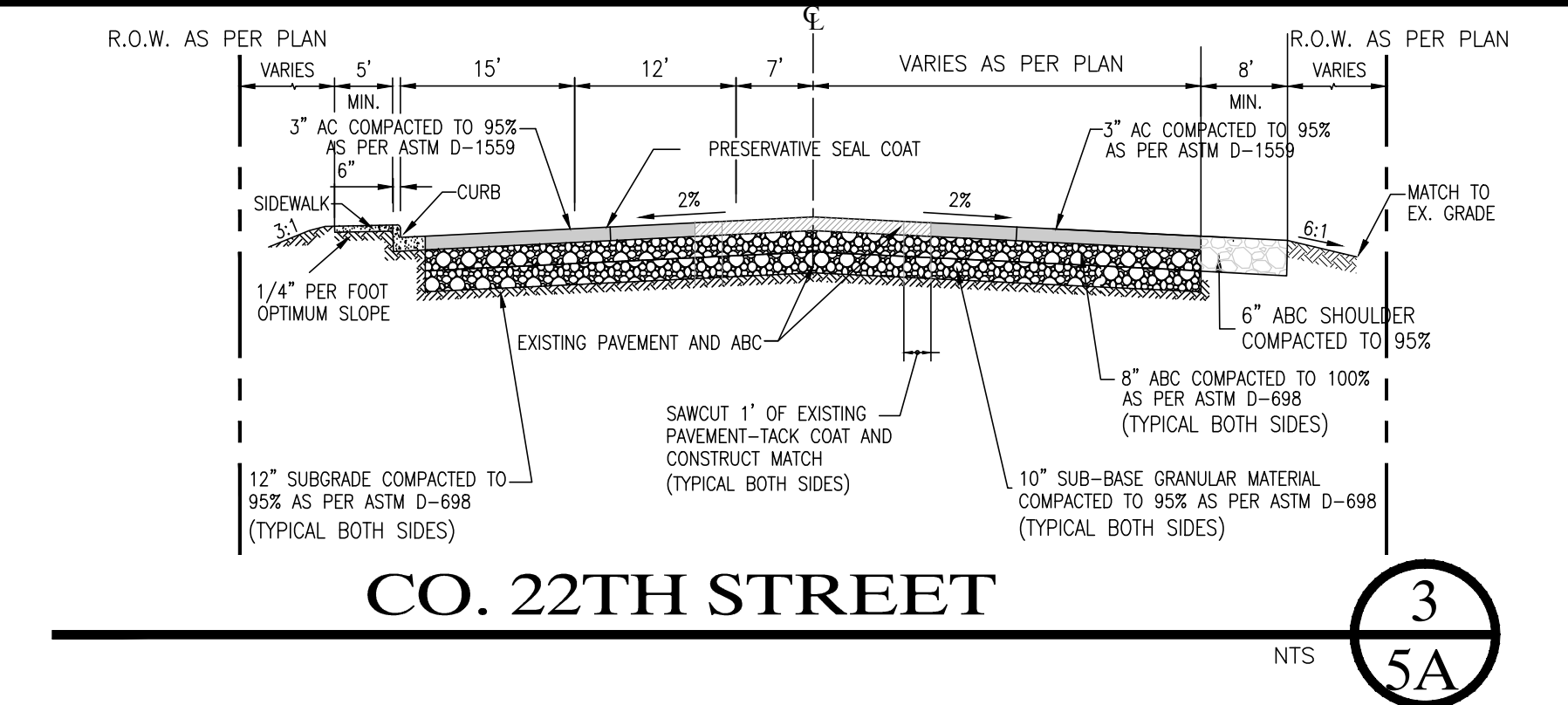
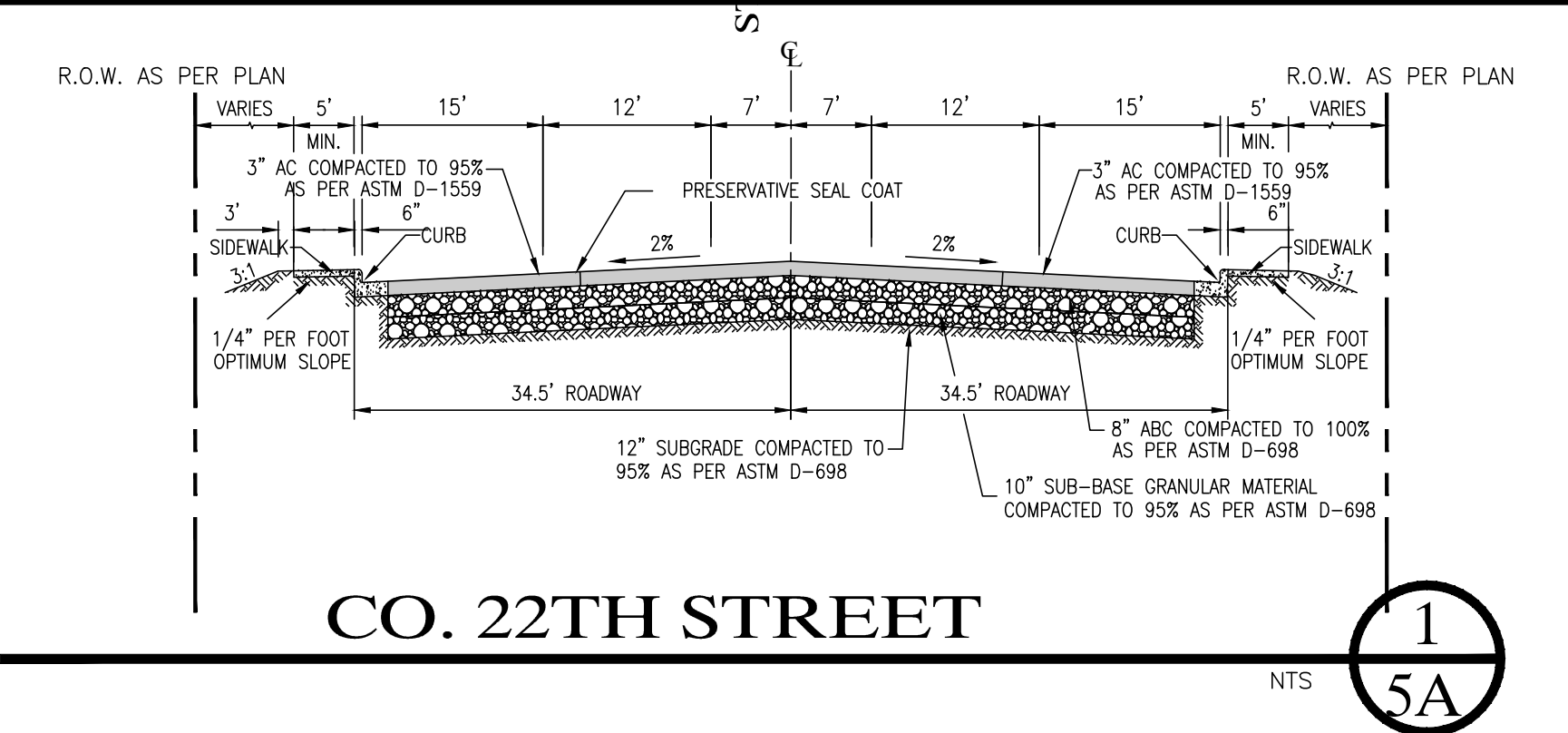
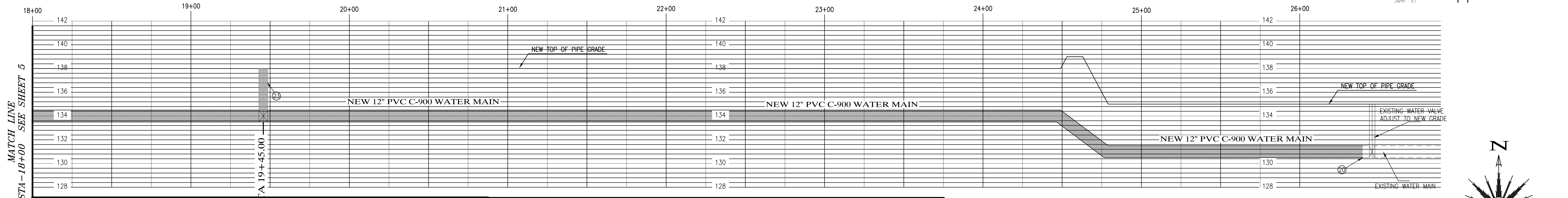
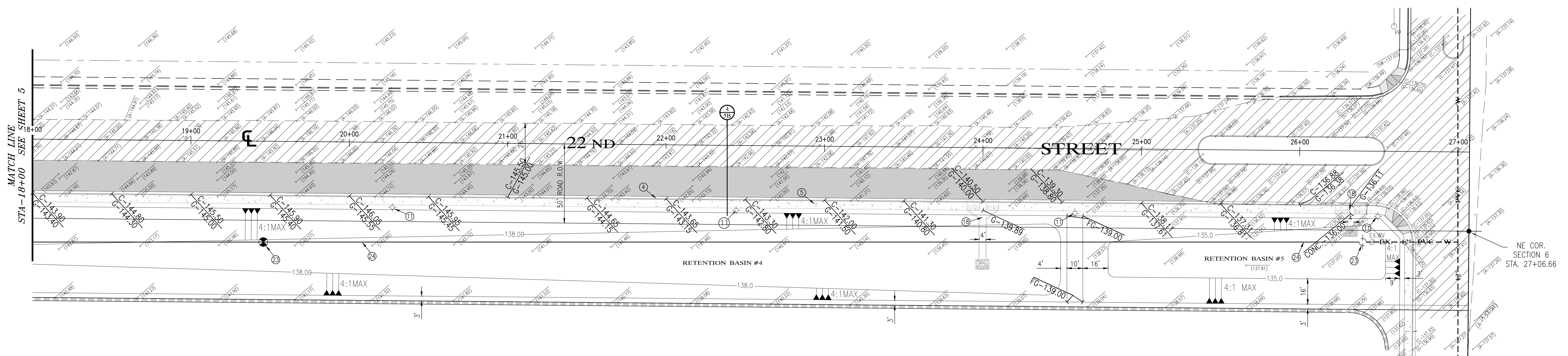
SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: OCT. 16	DRAWN BY: STAFF	JOB No. 14-015

SHEET
5

EDAIS
Engineering, Inc.

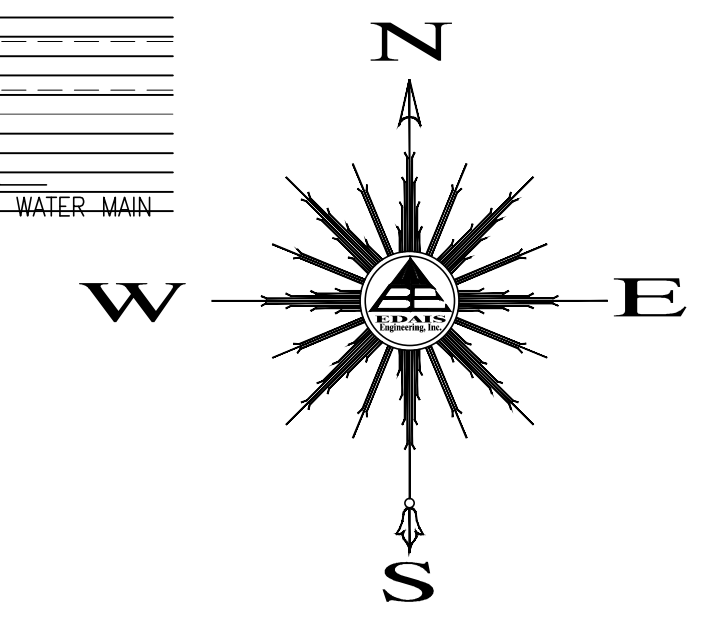
3075 S. Ave. 4E Yuma, Arizona 85365
(928) 344-3566 FAX (928) 941-1075
EMAIL: najeh@edaisgroup.com

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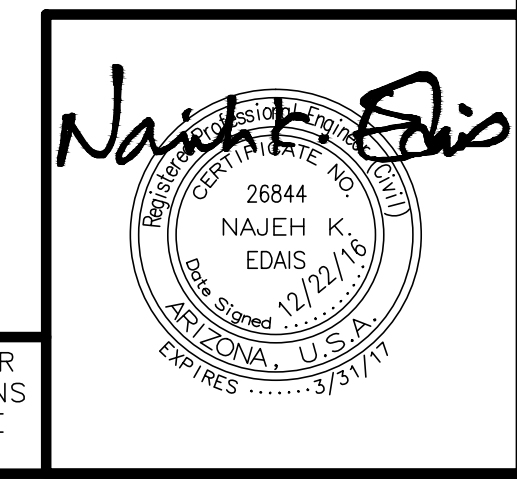


KEYNOTES:

- ① NEW CONCRETE SIDEWALK RAMP - SEE DETAIL (A/6)
- ② NEW ROLL CURB (TYPE "C" CURB) - SEE DETAIL (D/6)
- ③ NEW 4' CONCRETE SIDEWALK - SEE DETAIL (B/6)
- ④ NEW VERTICAL CURB & GUTTER - SEE DETAIL (C/6)
- ⑤ NEW 5' CONCRETE SIDEWALK - SEE DETAIL (E/6)
- ⑥ NEW 6' CROSS VALLEY GUTTER - SEE DETAIL (F/6)
- ⑦ NEW 50' CROWN TRANSITION
- ⑧ NEW 6' HIGH (AS MEASURED FROM THE HIGHER GROUND ELEVATION SIDE OF WALL) CMU WALL - SEE DETAIL (O/7)
- ⑨ NEW CURB & GUTTER STRIP - SEE DETAIL (E/6)
- ⑩ NEW DOUBLE FACED STREET SIGN W/STOP - SEE DETAIL (H/6) (G/6)
- ⑪ NEW STREET LIGHT BY APS
- ⑫ NEW STREET MONUMENT YUMA COUNTY - SEE DETAIL (G/6) STD. No. 4-080
- ⑬ NEW KEYSTONE RETAINING WALL - SEE DETAILS ON SHEET 7A
- ⑭ NEW BOUNDARY MONUMENT YUMA COUNTY - SEE DETAIL (O/6) STD. 4-030
- ⑮ TYPE III BARRICADE - SEE DETAIL (G/4)
- ⑯ LOCATION OF 18' DRIVEWAY
- ⑰ END KEYSTONE RETAINING WALL & BEGIN CMU WALL
- ⑱ NEW CONCRETE SPILLWAY - SEE DETAIL (P/7)
- ⑲ NEW STEEL TUBE FENCE - SEE DETAIL (O/7)
- ⑳ CURB TRANSITION FROM VERTICAL CURB TO ROLL CURB - SEE DETAIL (E/6)
- ㉑ NEW LIFT STATION FENCING & GATE - SEE DETAIL (N/7)
- ㉒ NEW 15' CROSS VALLEY GUTTER - SEE DETAIL (F/6)
- ㉓ REMOVE EXISTING BLOW OFF VALVE AND CONNECT NEW 12" WATER MAIN TO MATCH
- ㉔ NEW 12" PVC C-900 PVC WATER MAIN
- ㉕ NEW 45' ELL W/THRUST BLOCK



SCALE HORIZ: 1"=30'
SCALE VERT: 1"=4'



LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

COUNTY 22ND STREET IMPROVEMENT

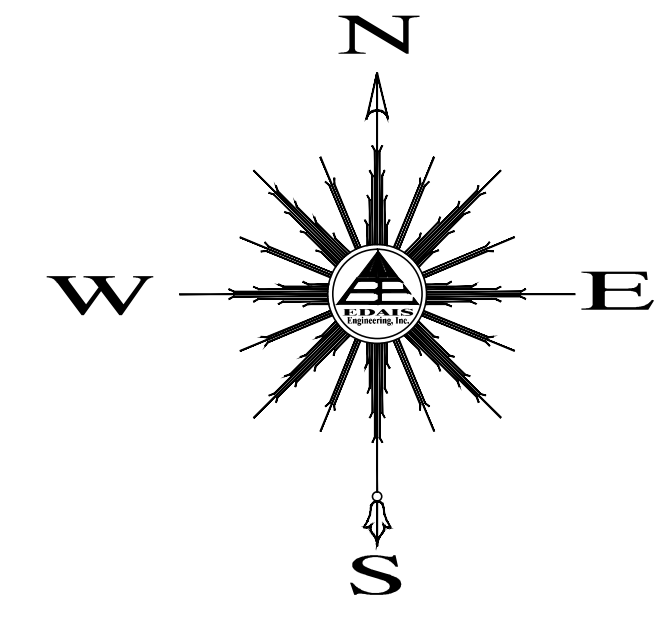
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DATE: OCT. 16 DRAWN BY: STAFF JOB No. 14-015

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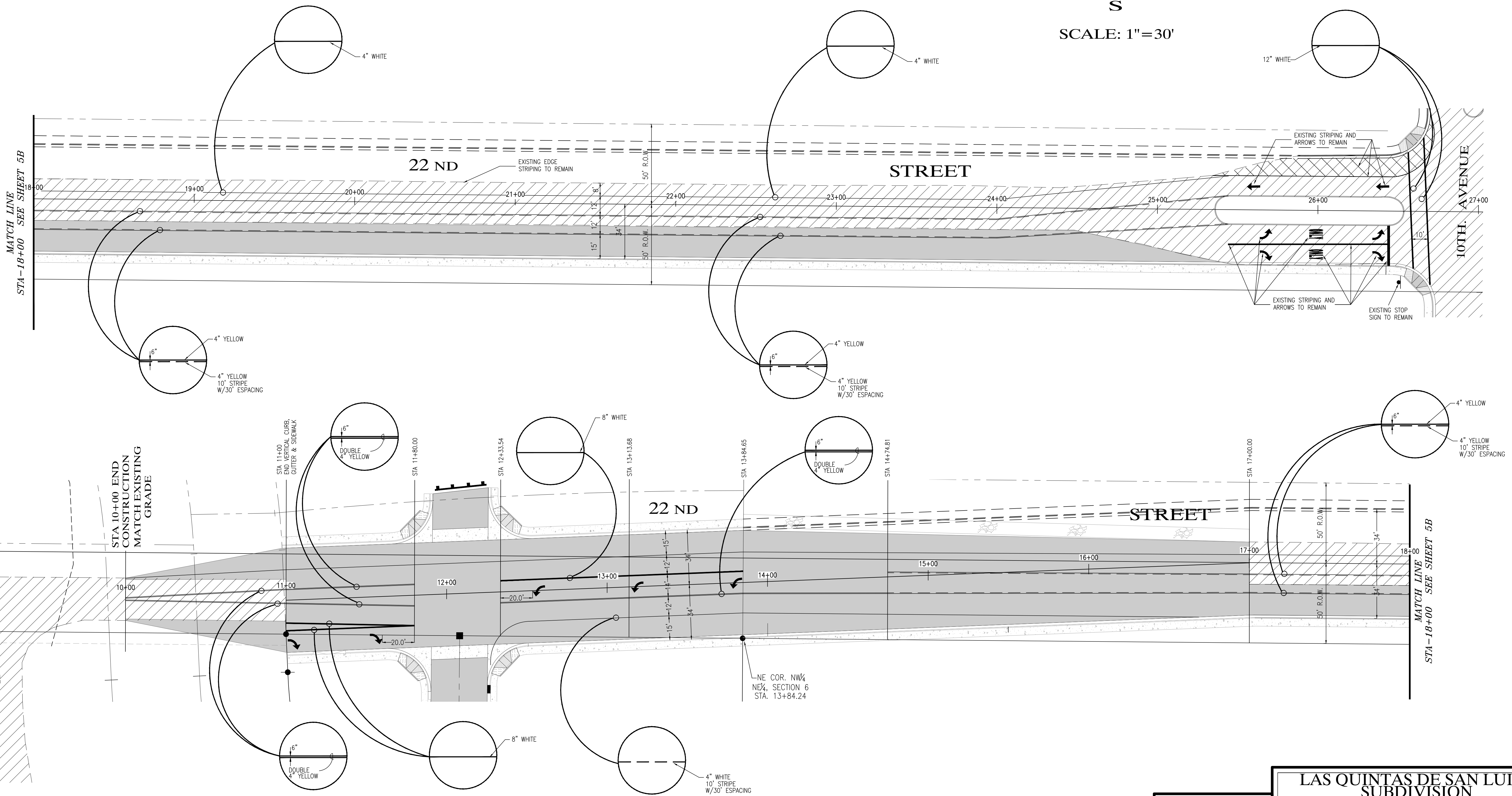
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(928) 344-3566 FAX (928) 341-1075
EMAIL: najeh@edaisgroup.com

SHEET **5A**

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SCALE: 1"=30'



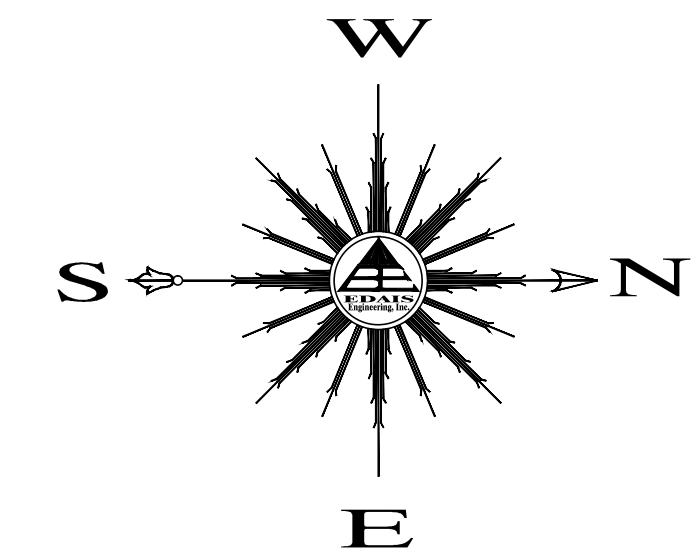
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
COUNTY 22ND STREETH STRIPING PLAN

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: OCT. 16	DRAWN BY: STAFF	JOB No. 14-015

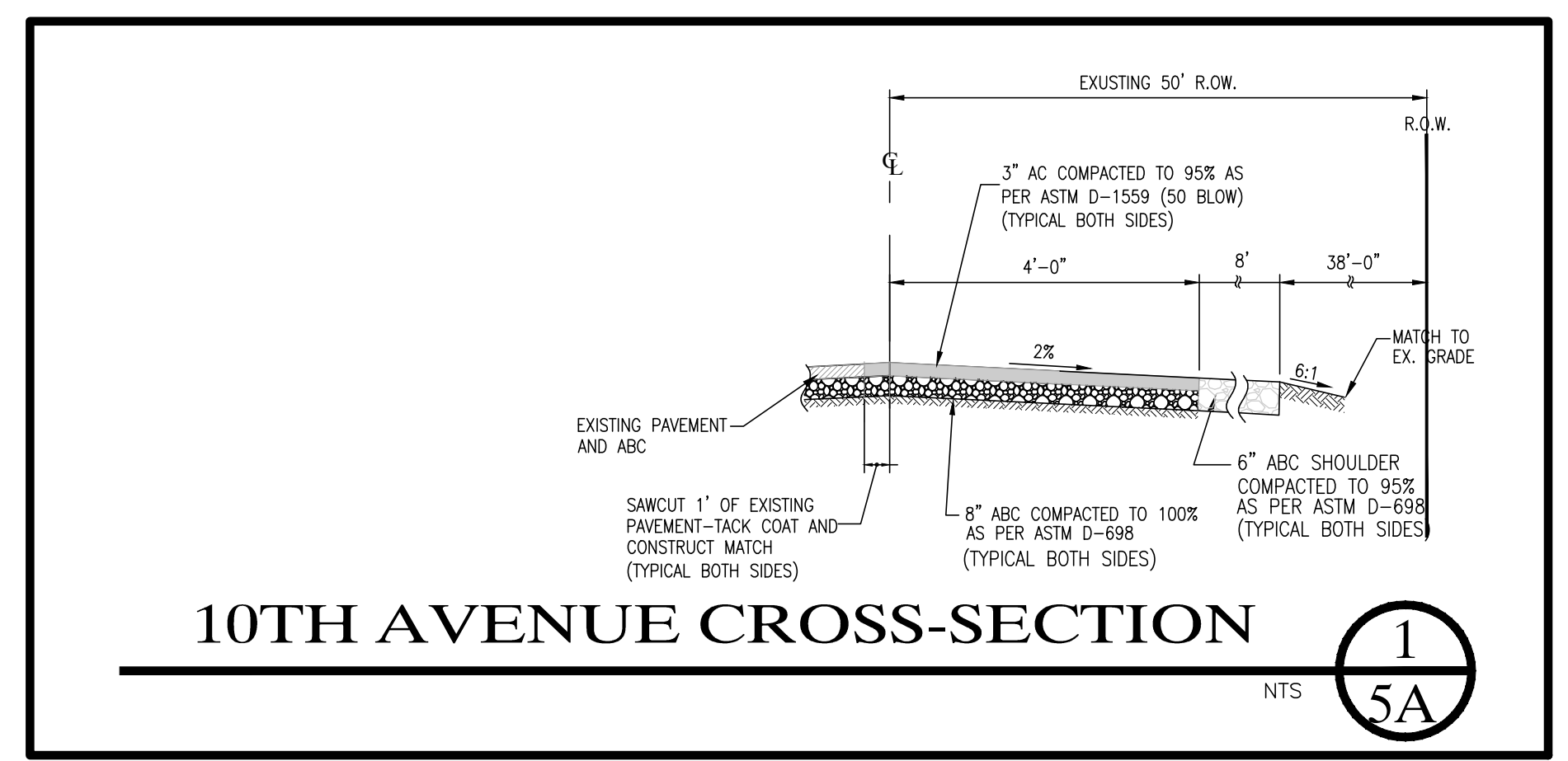
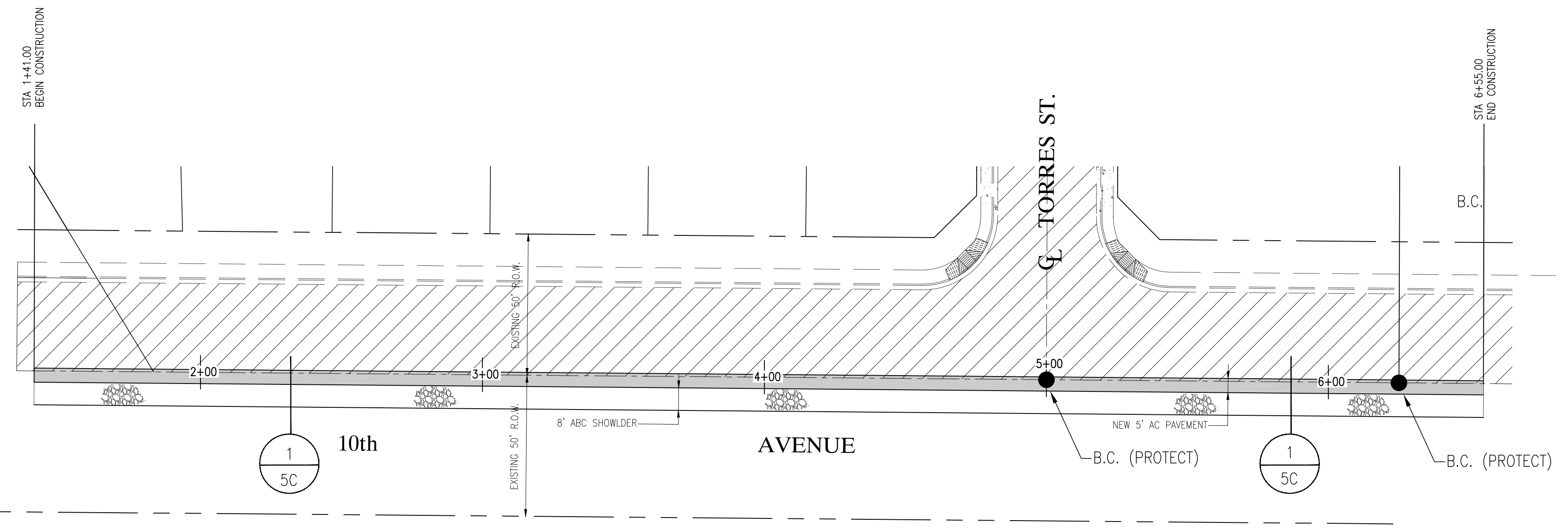
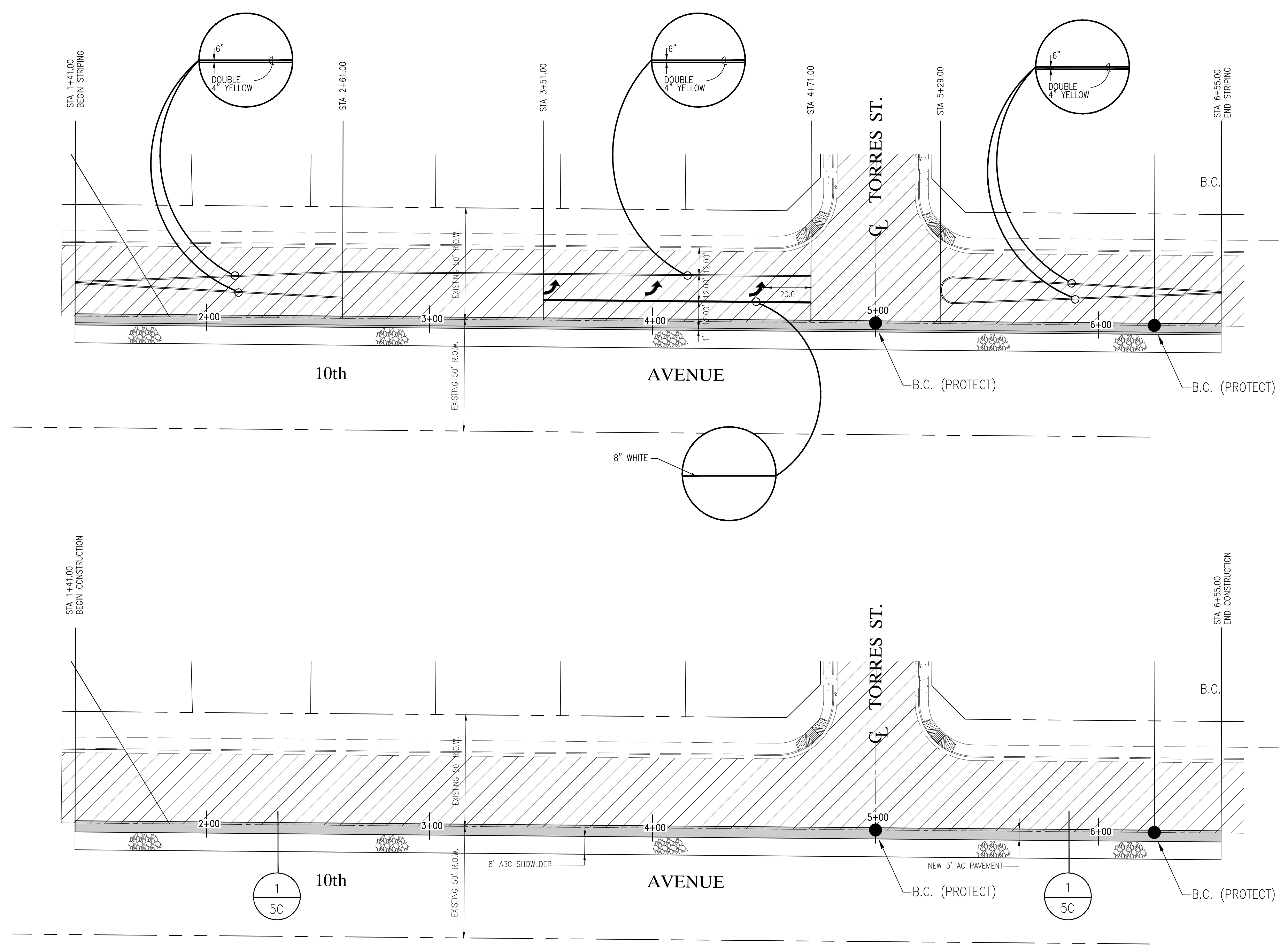
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 (928) 344-3566 FAX (928) 941-1075
 EMAIL: najeh@Edaisgroup.com

SHEET **5B**

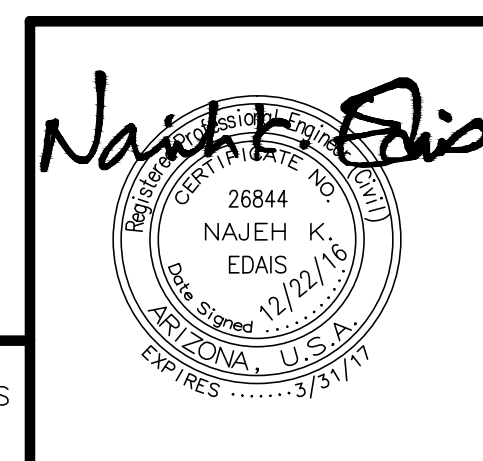
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SCALE: 1"=30'



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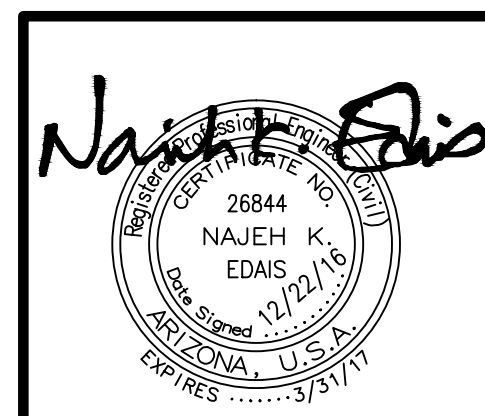
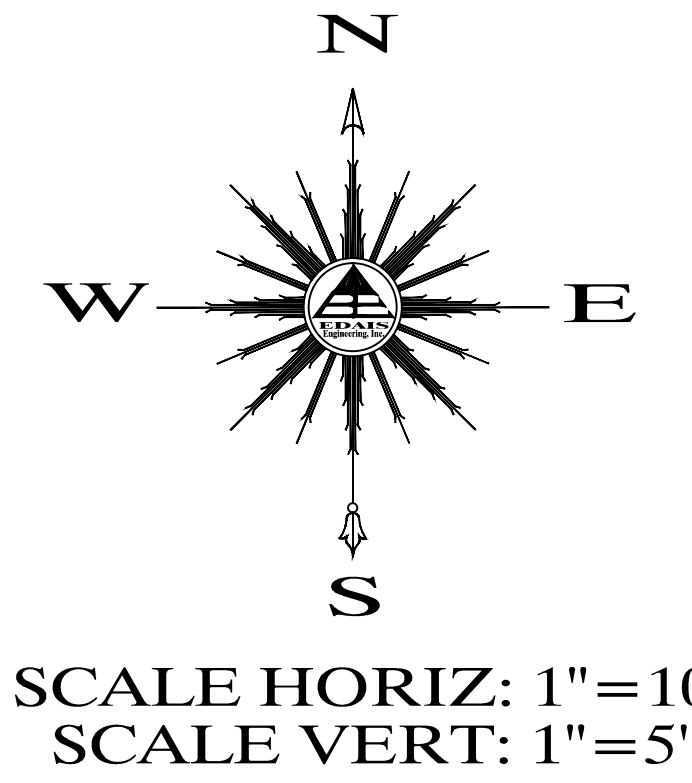
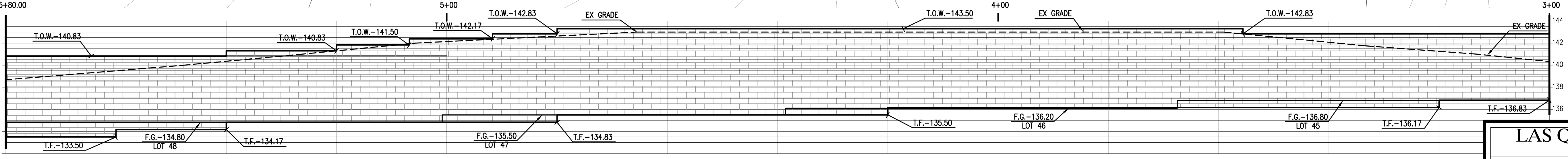
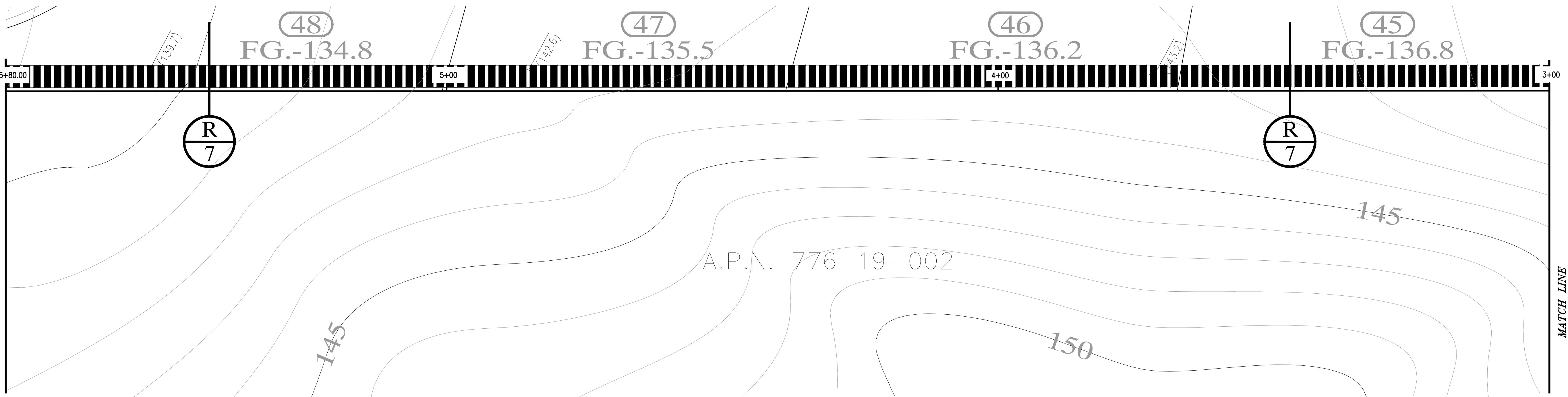
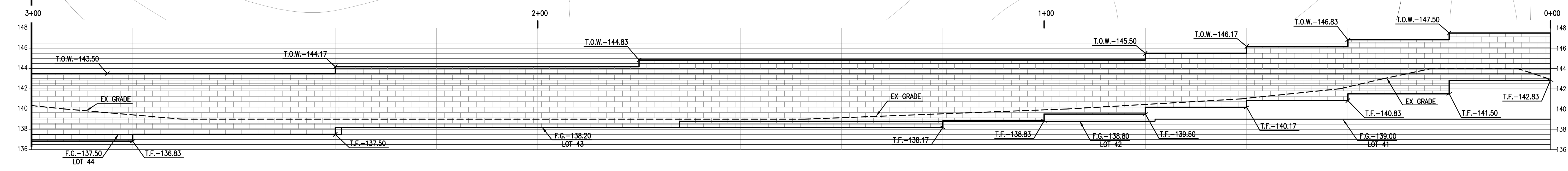
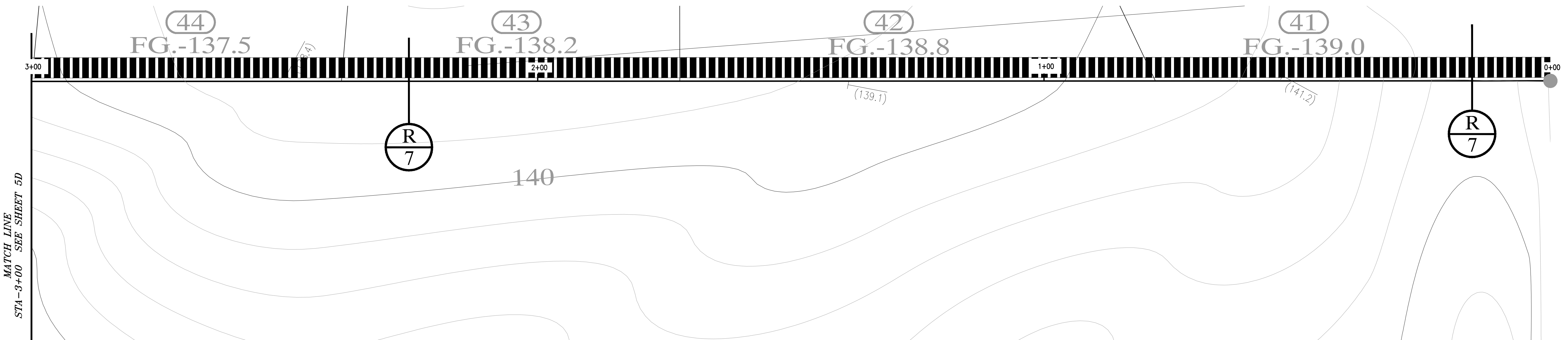


LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
10TH AVENUE AND TORRES STREET IMPROVEMENTS AND STRIPING PLAN

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: DEC. 16	DRAWN BY: LPR	JOB No. 14-015

EDAIS Engineering, Inc.
 3075 S. Ave. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najeh@Edaisgroup.com

SHEET **5C**



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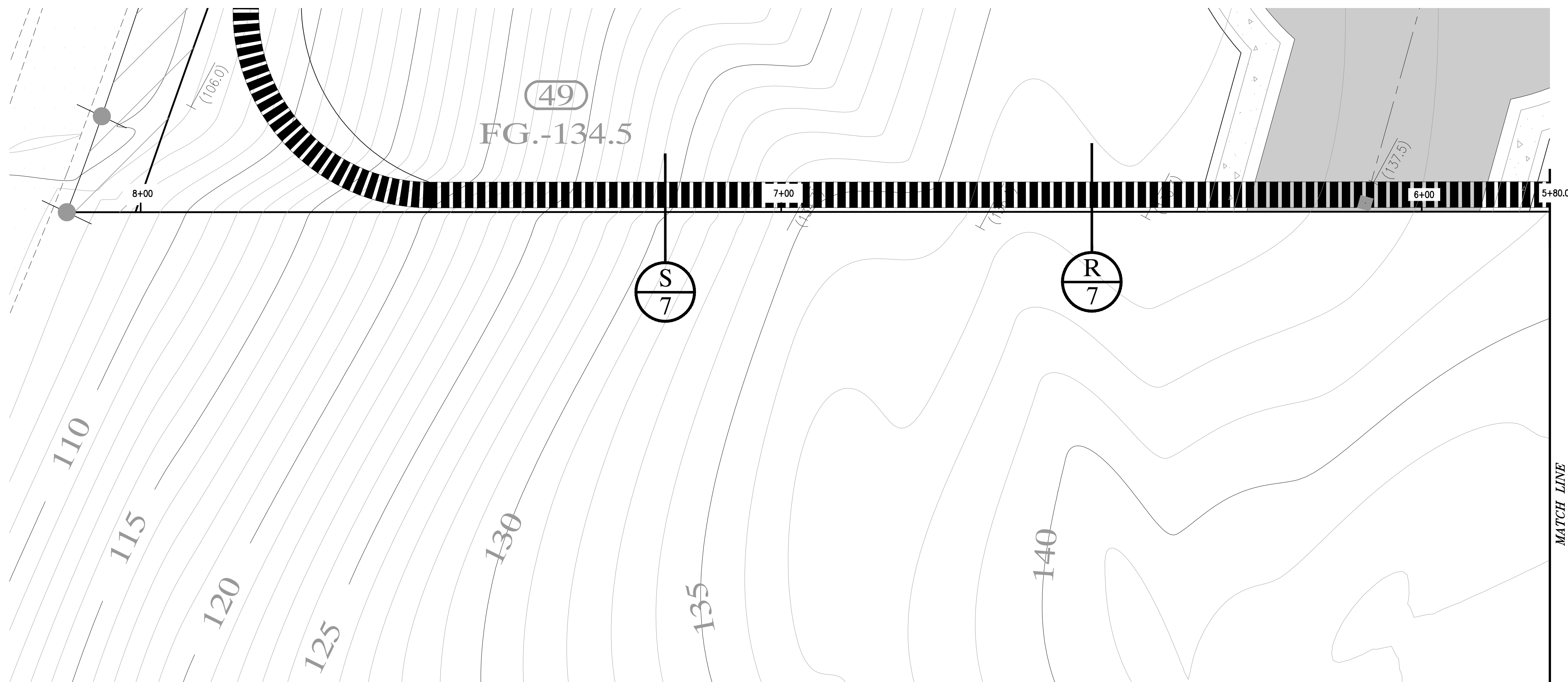
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
SOUTH WALL PROFILE

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: AUG '16"	DRAWN BY: STAFF	JOB No. 14-015

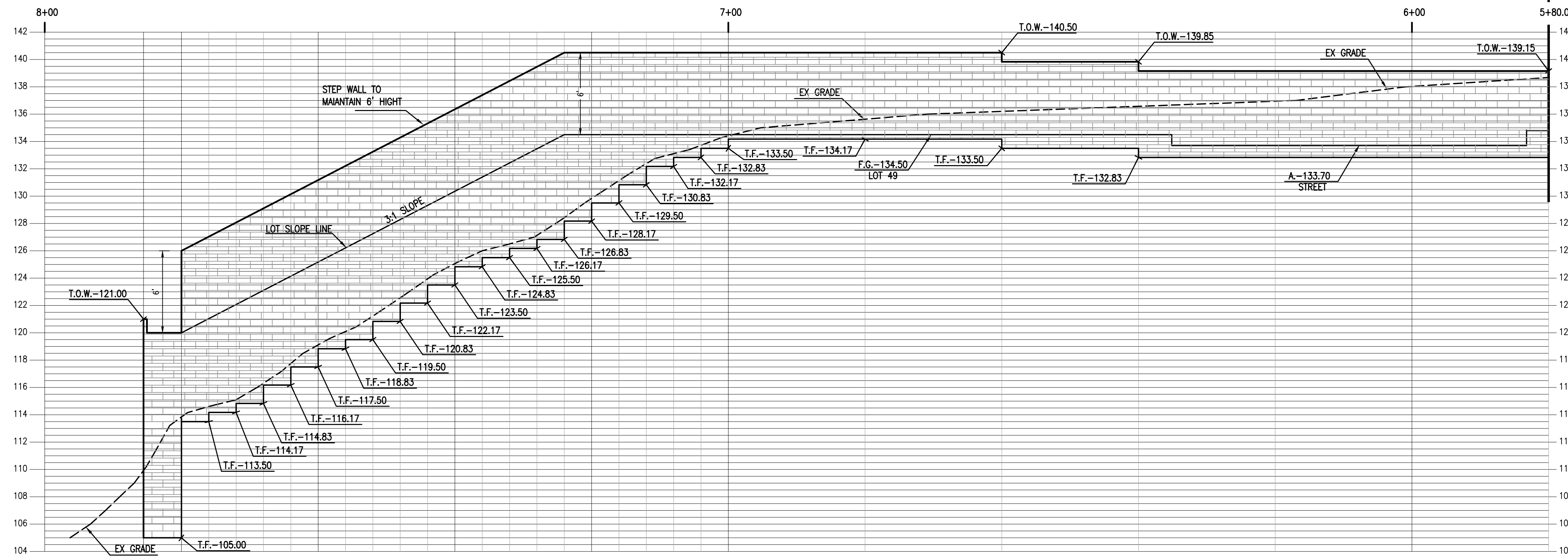
Edais Engineering, Inc.
 263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najeh@Edaisgroup.com

SHEET **5 D**



N
W E
S
SCALE HORIZ: 1"=10'
SCALE VERT: 1"=5'



Najeh Edais
 REGISTERED PROFESSIONAL ENGINEER
 28844
 NAJEH K.
 EDAIS
 LICENSED 12/22/18
 YUMA, ARIZONA, U.S.A.
 EXPIRES 3/31/21

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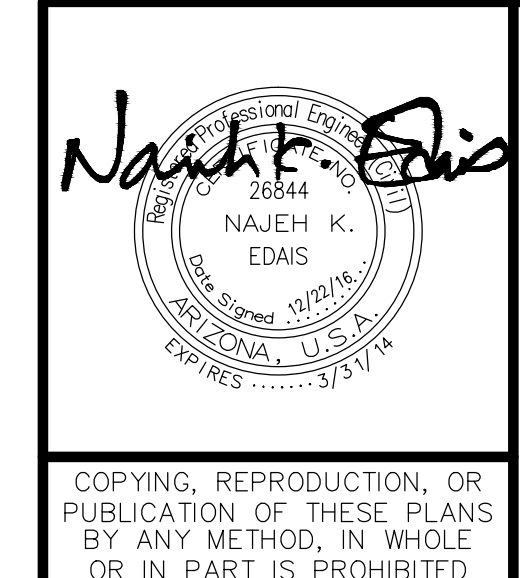
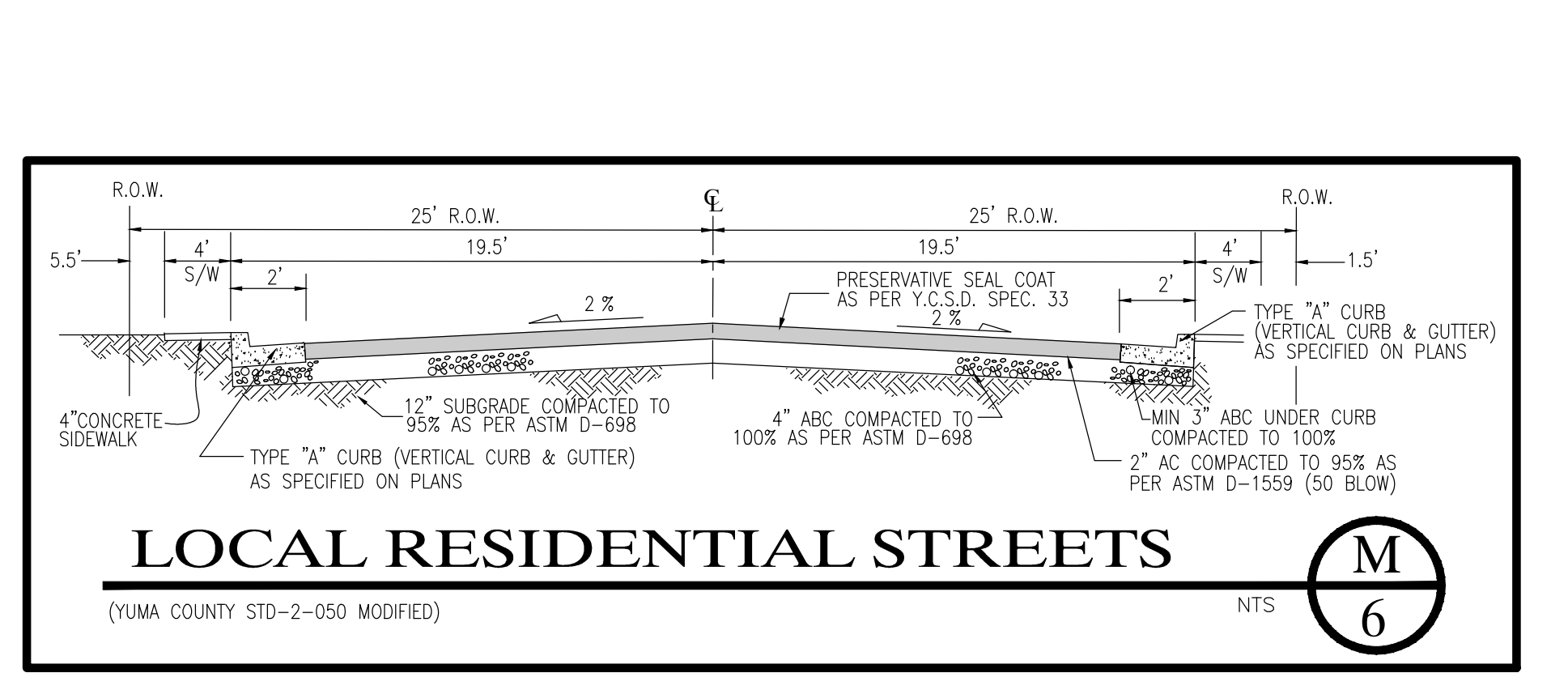
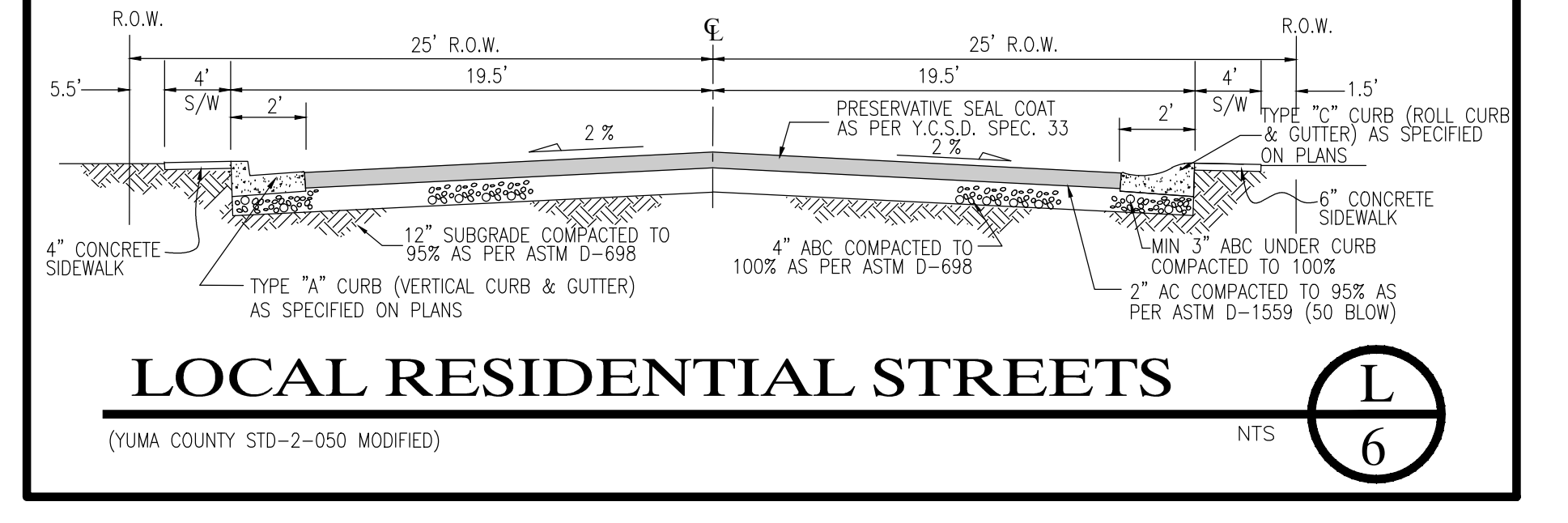
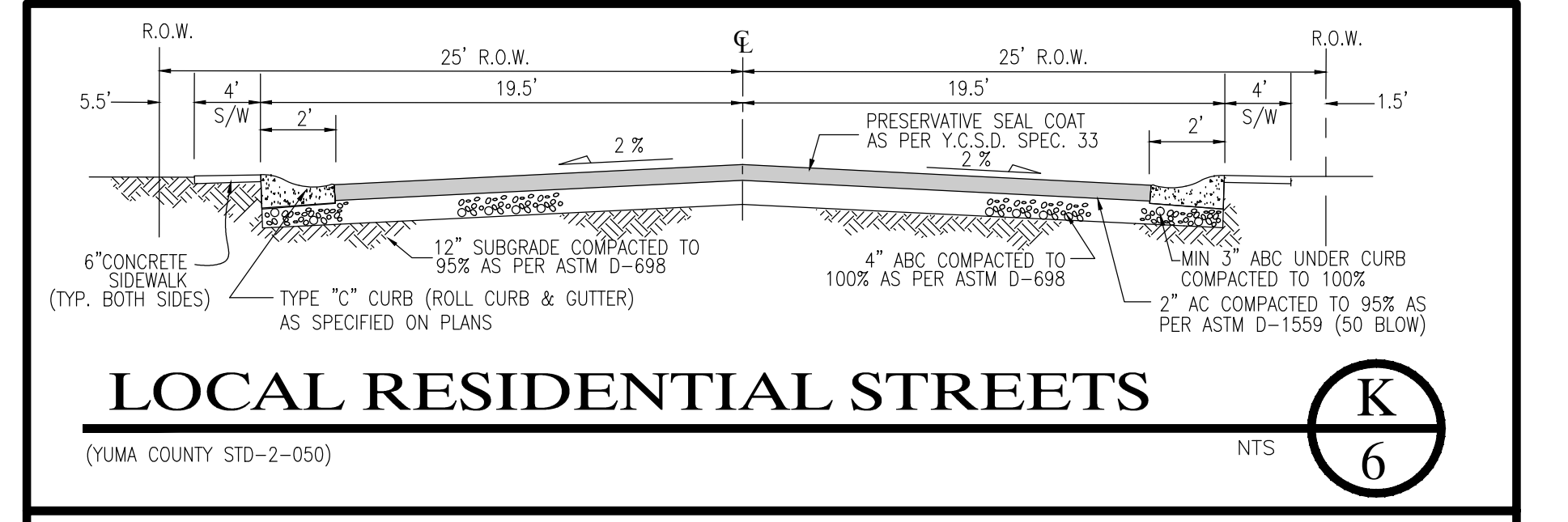
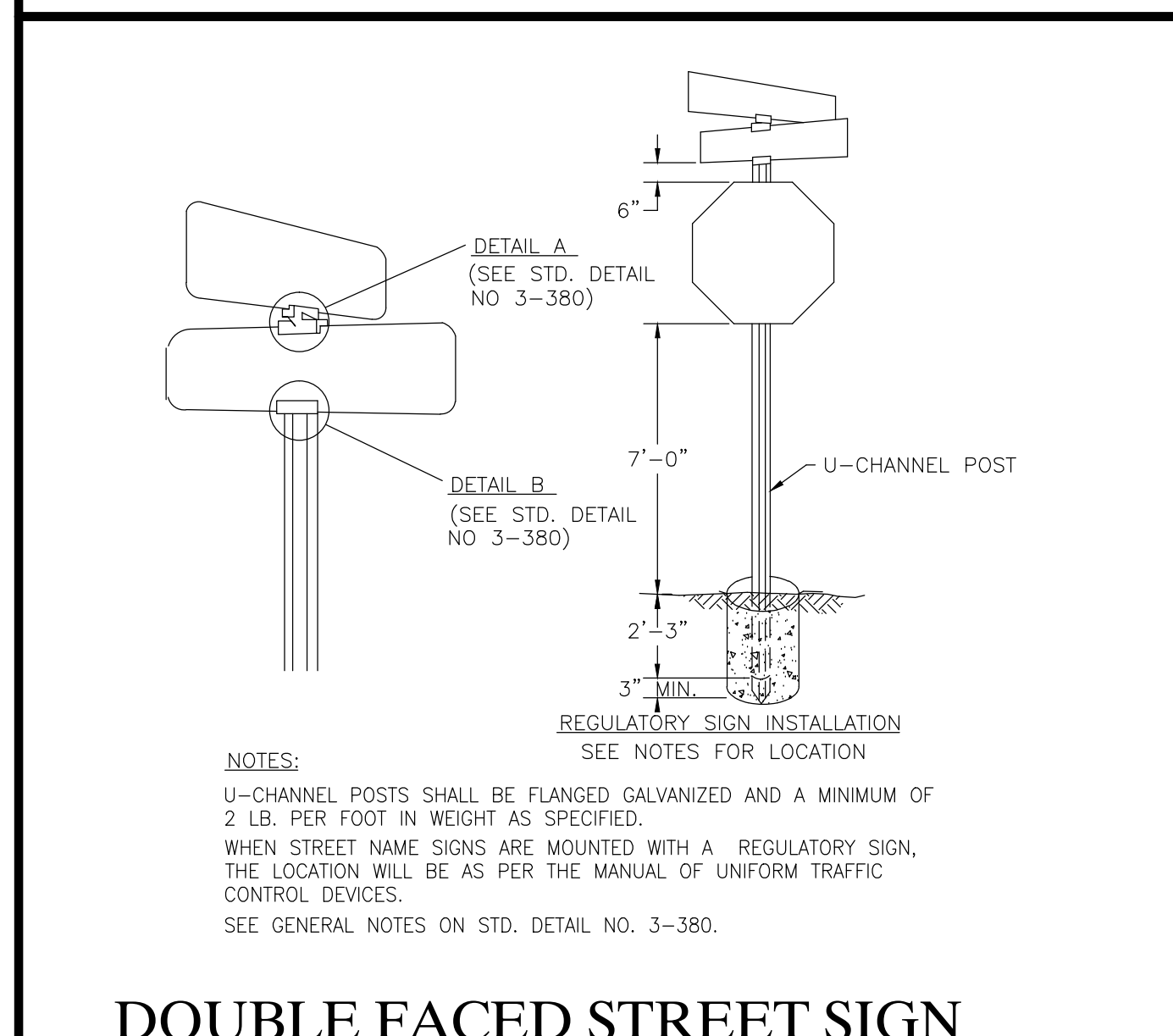
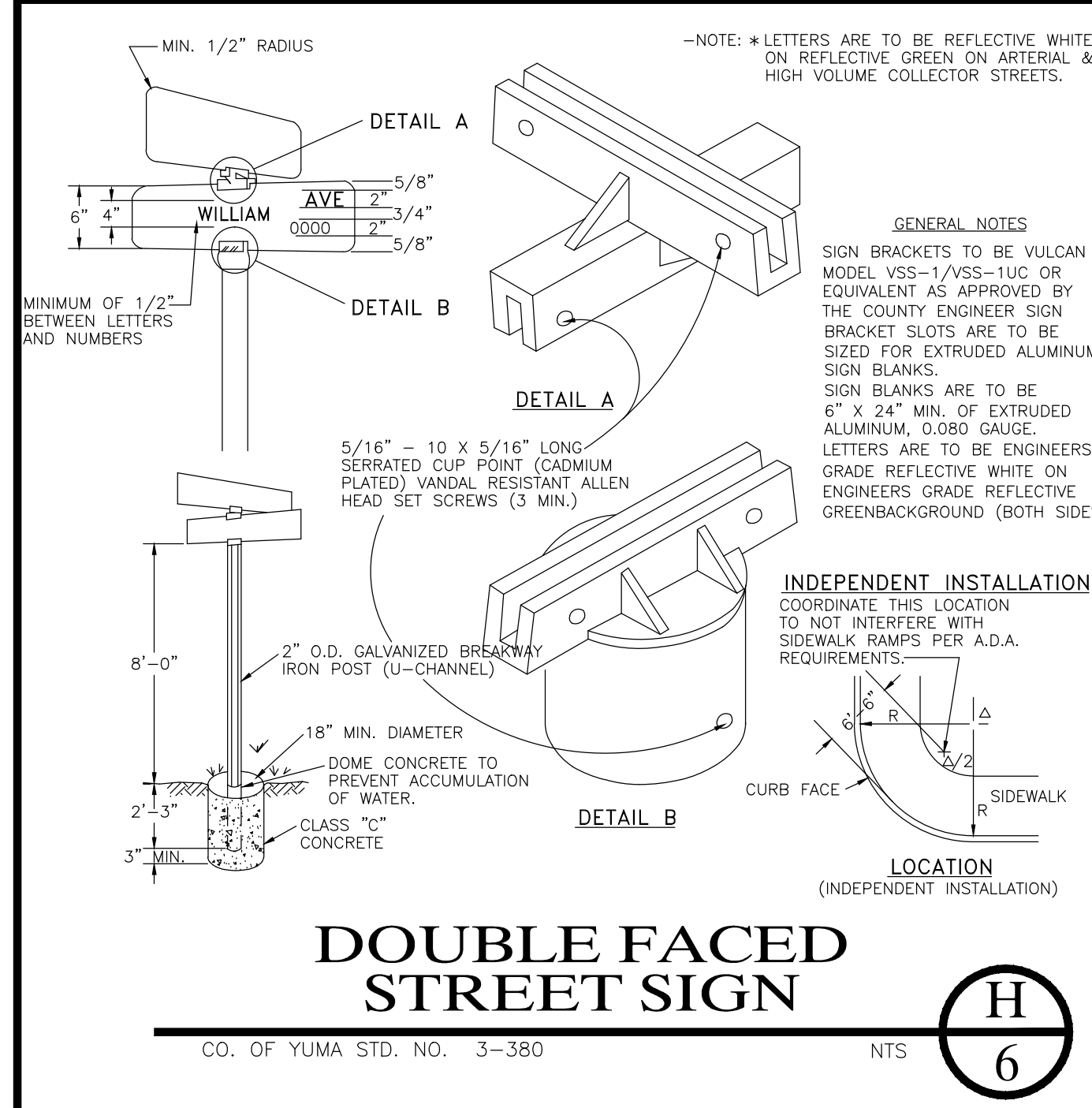
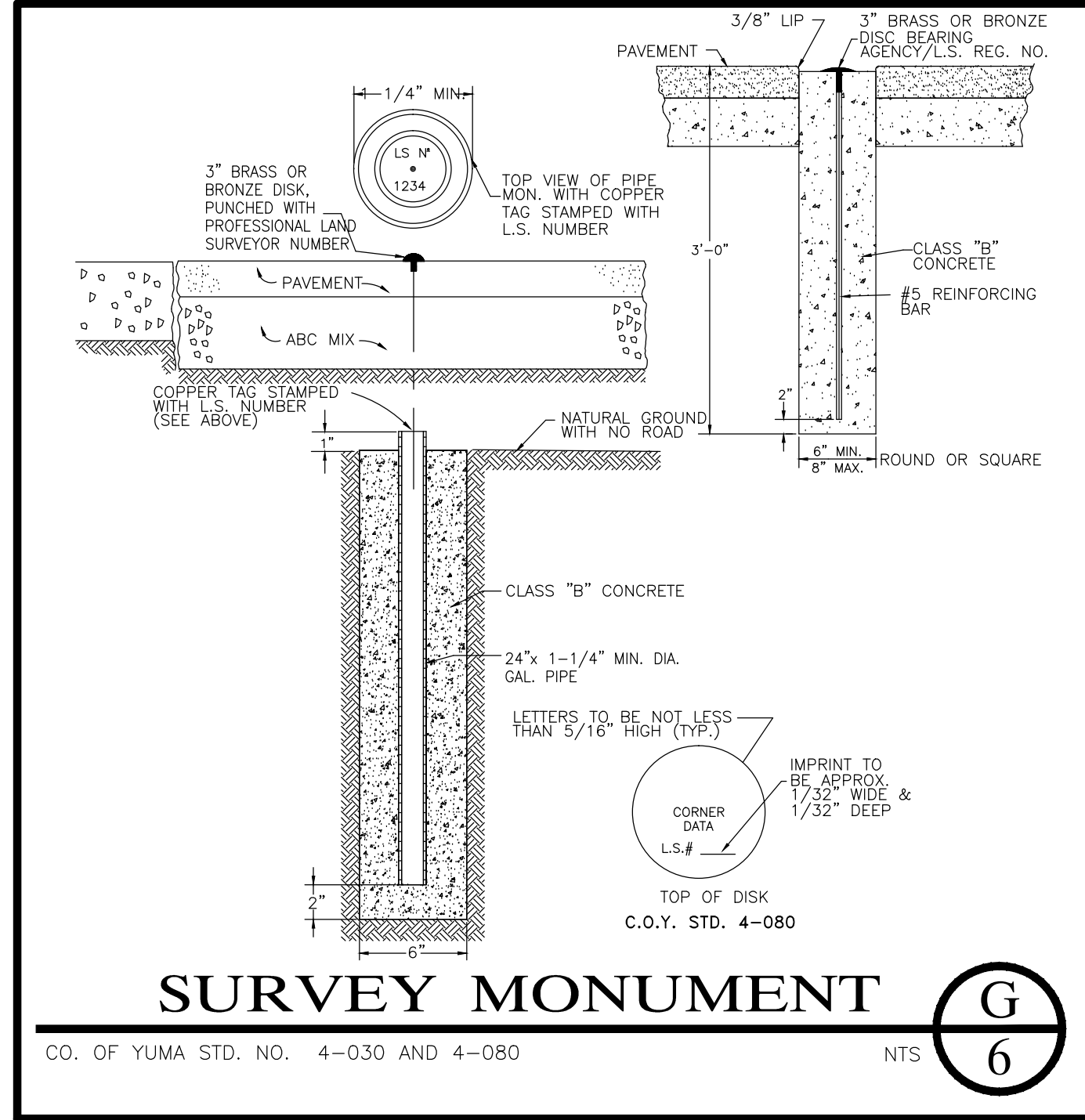
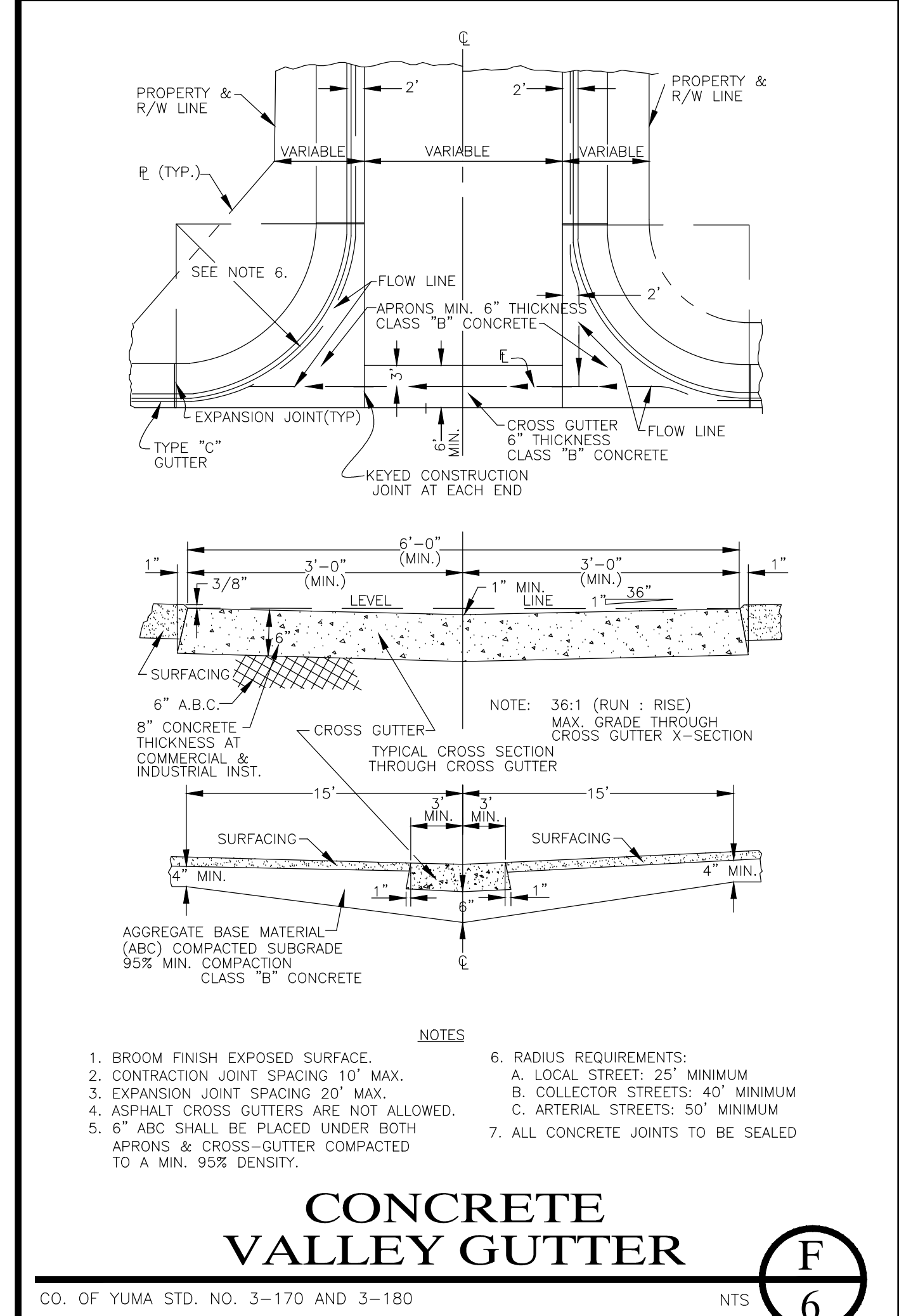
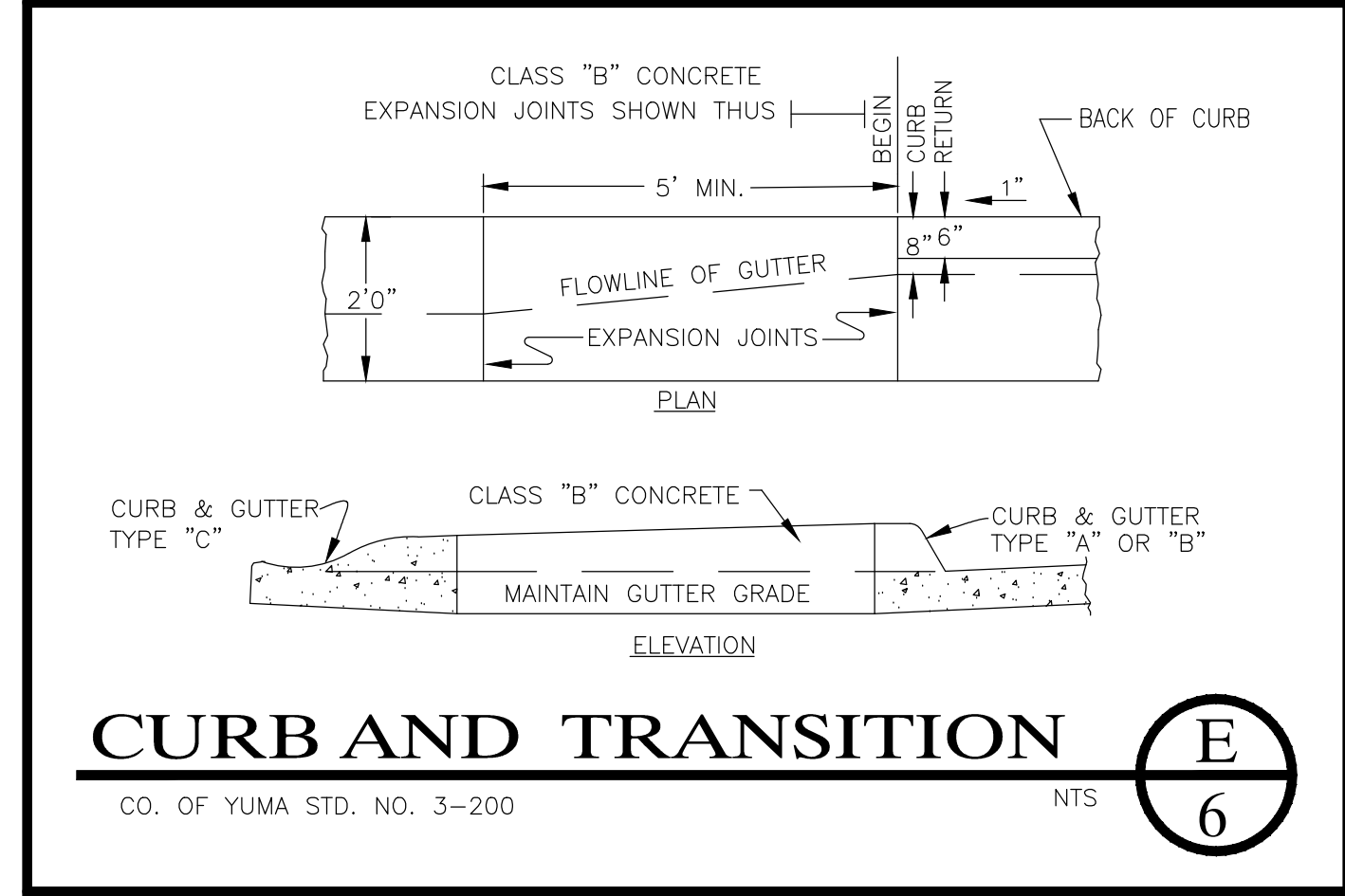
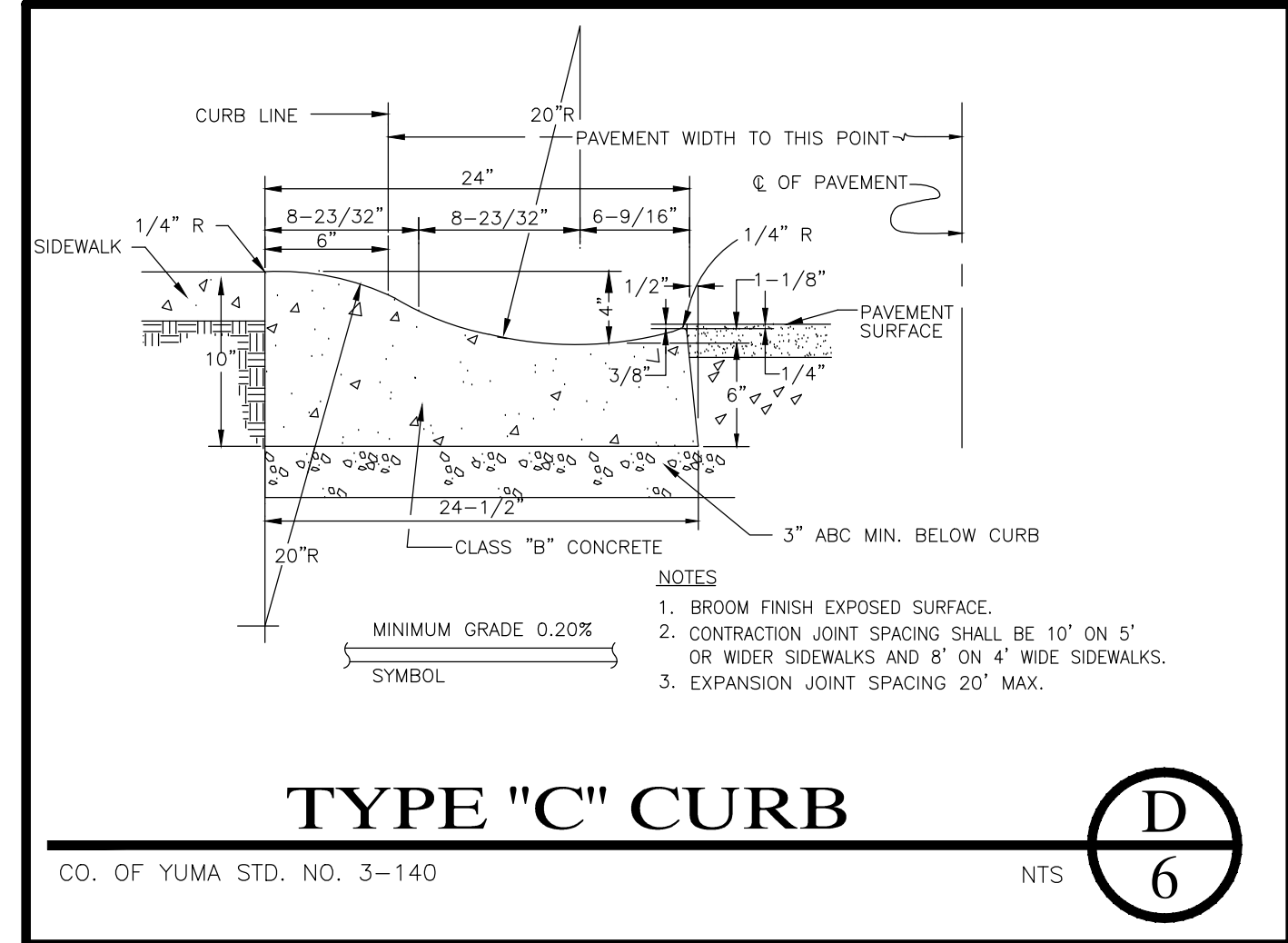
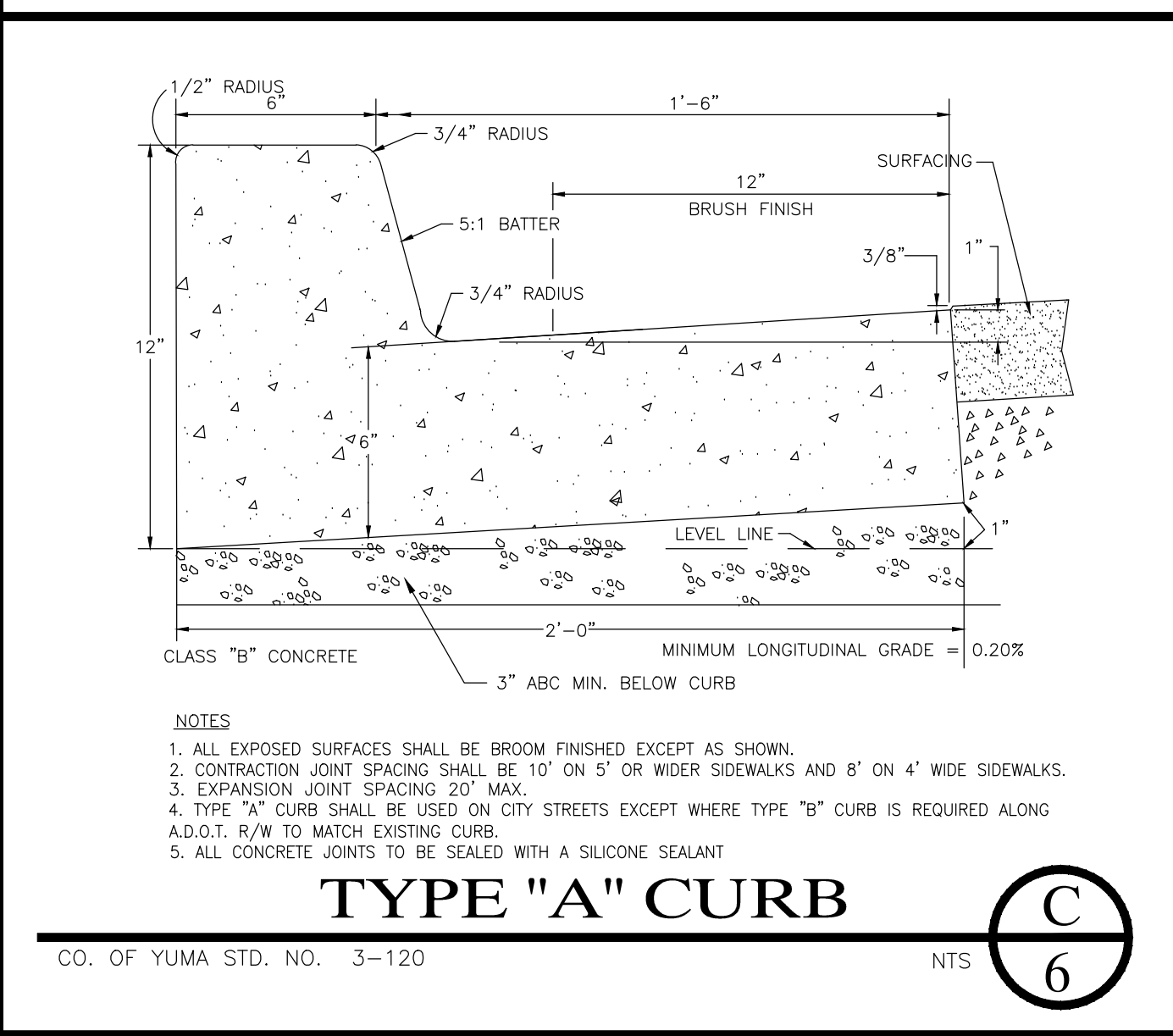
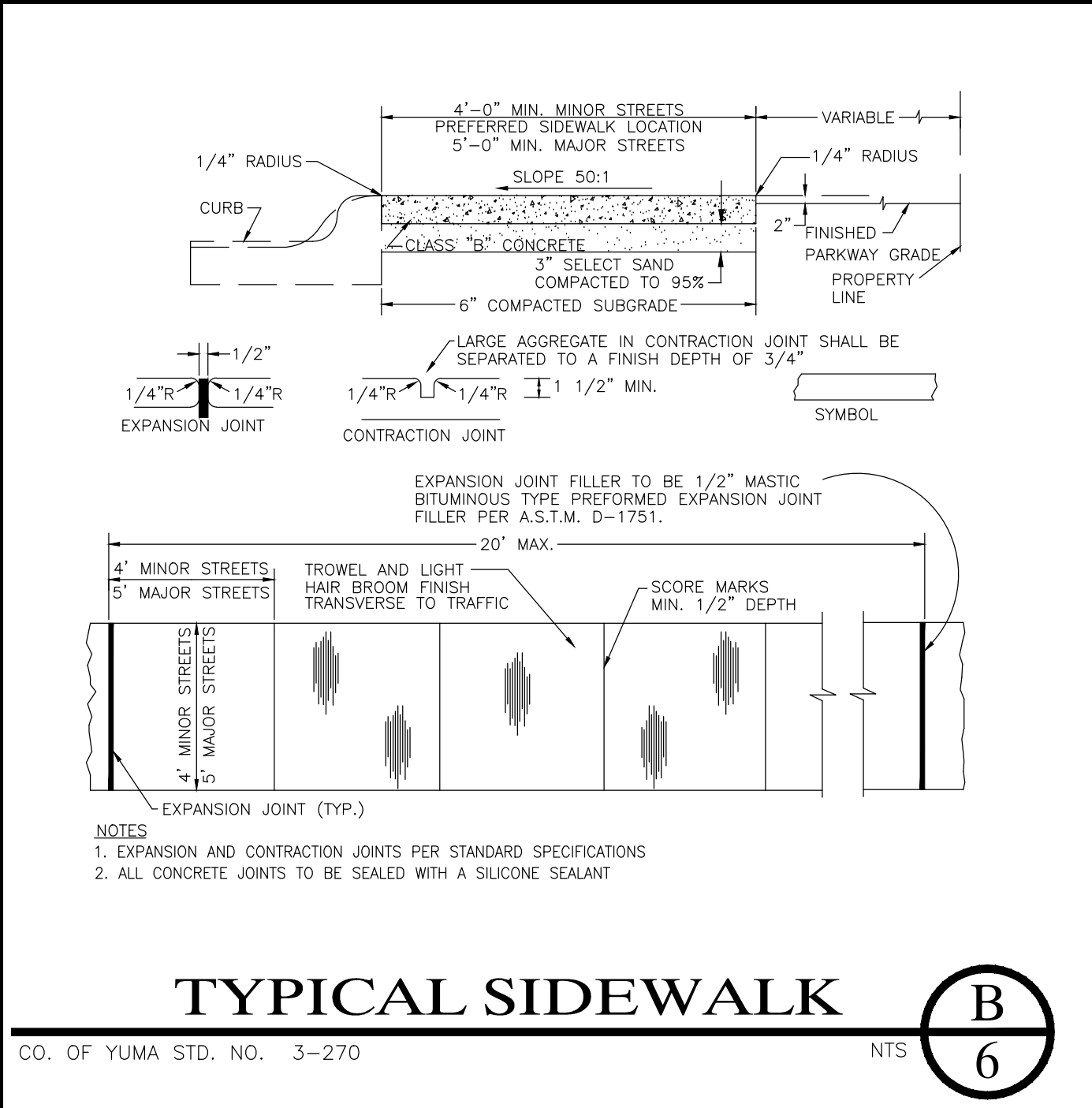
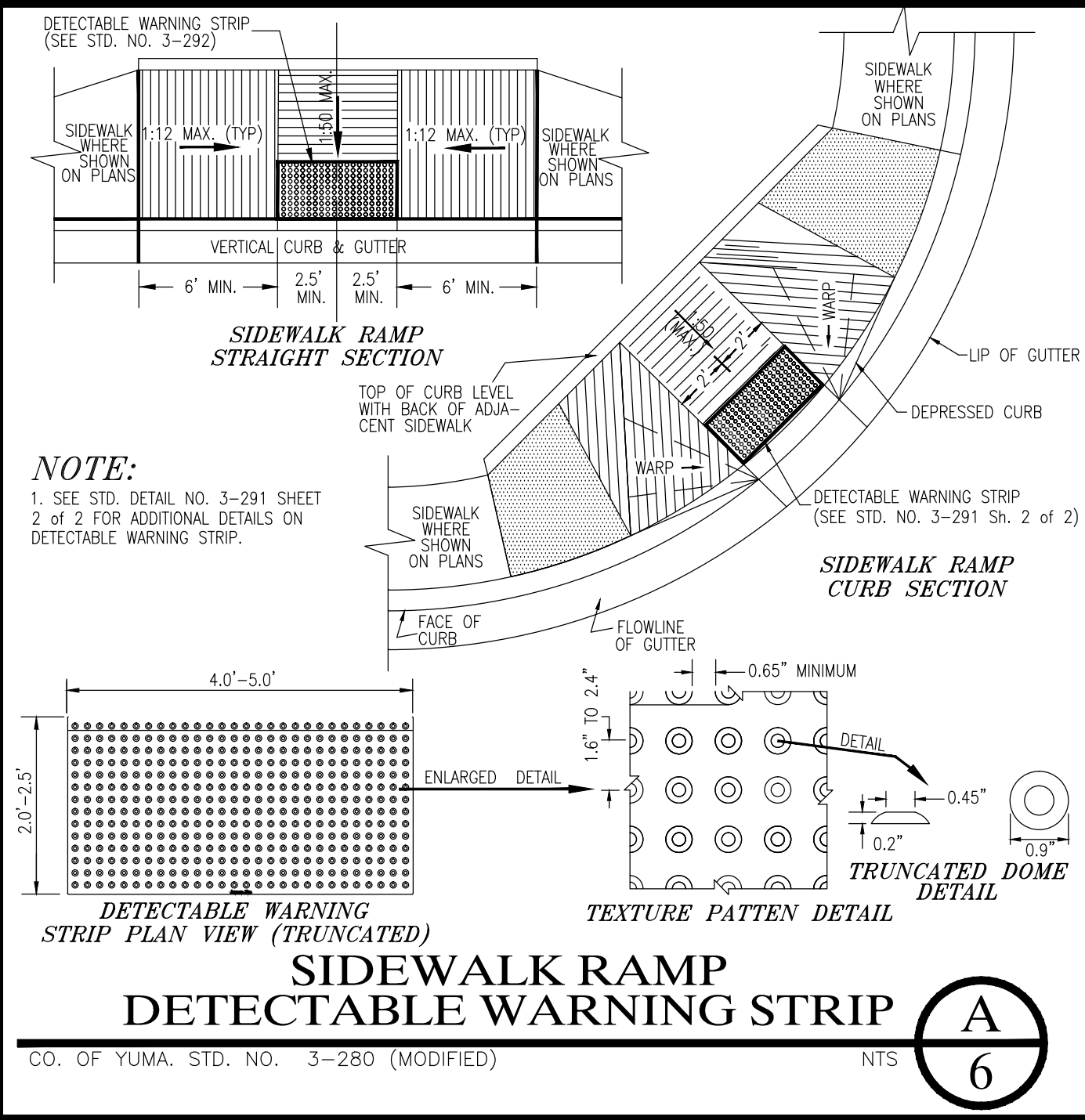
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
SOUTH WALL PROFILE

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: AUG '16"	DRAWN BY: STAFF	JOB No. 14-015

CALL TWO WORKING DAYS BEFORE YOU DIG
 263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

EDAIS Engineering, Inc.
 3075 S. AVE. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: najeh@Edaisgroup.com

SHEET 5 E



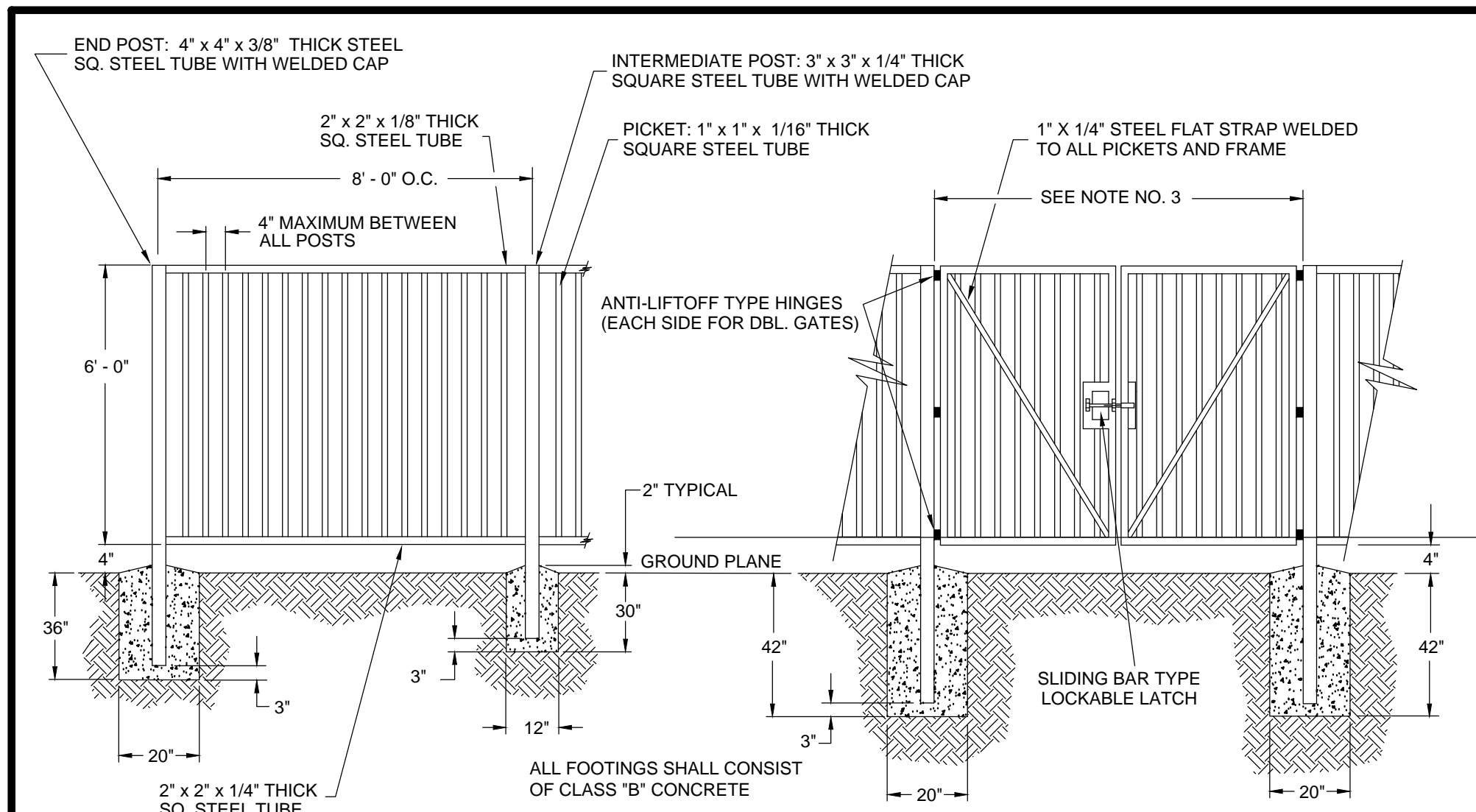
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

PAVING & GRADING DETAILS

SCALE: AS SHOWN DESIGNED BY: N.K.E. CHECKED BY: N.K.E.
 DATE: DEC. 16 DRAWN BY: STAFF JOB NO: 14-015

EDAIS Engineering, Inc.
 3075 S. Ave. 4E Yuma, Arizona 85365
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: EE@Edaisengineering.com

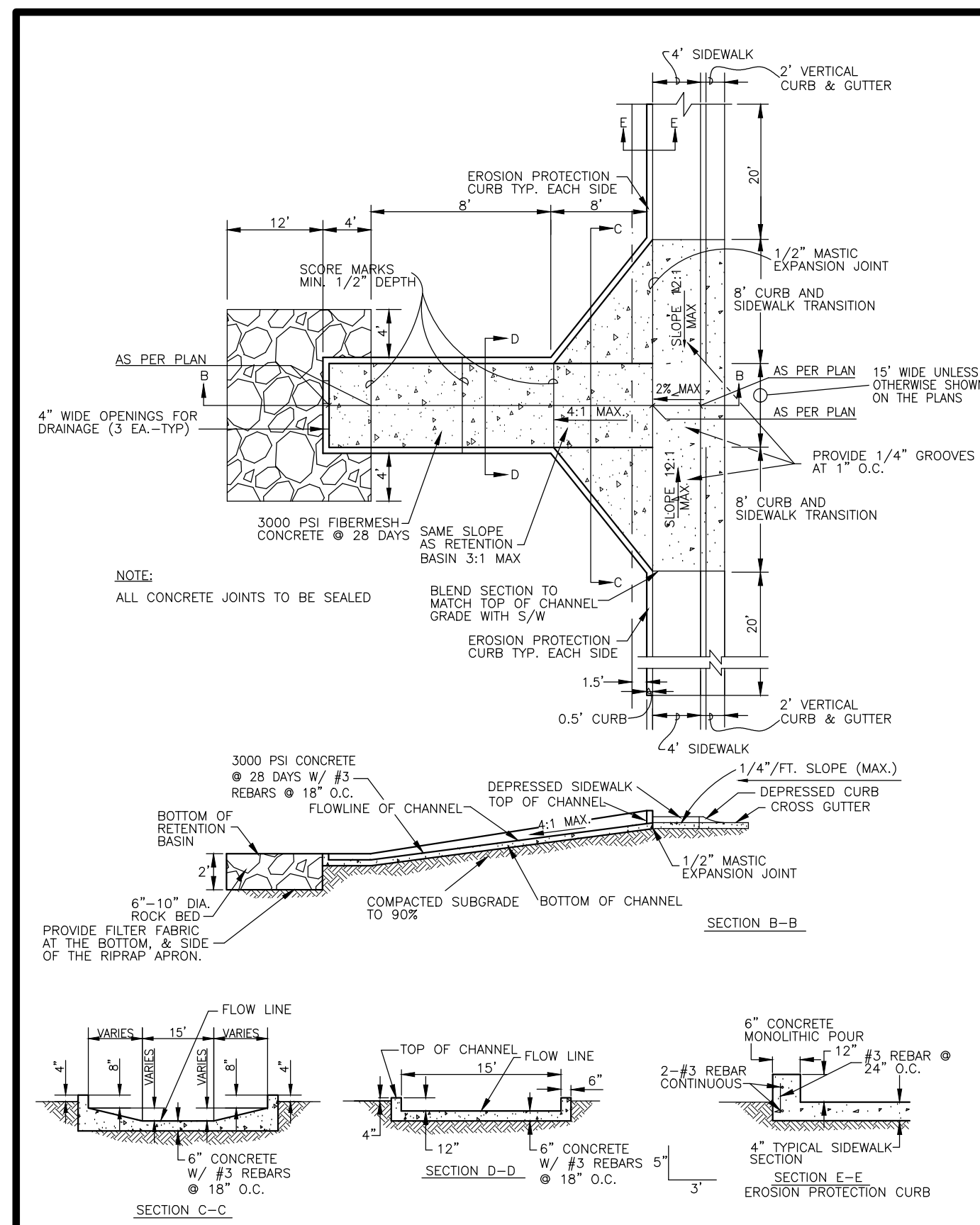
SHEET 6



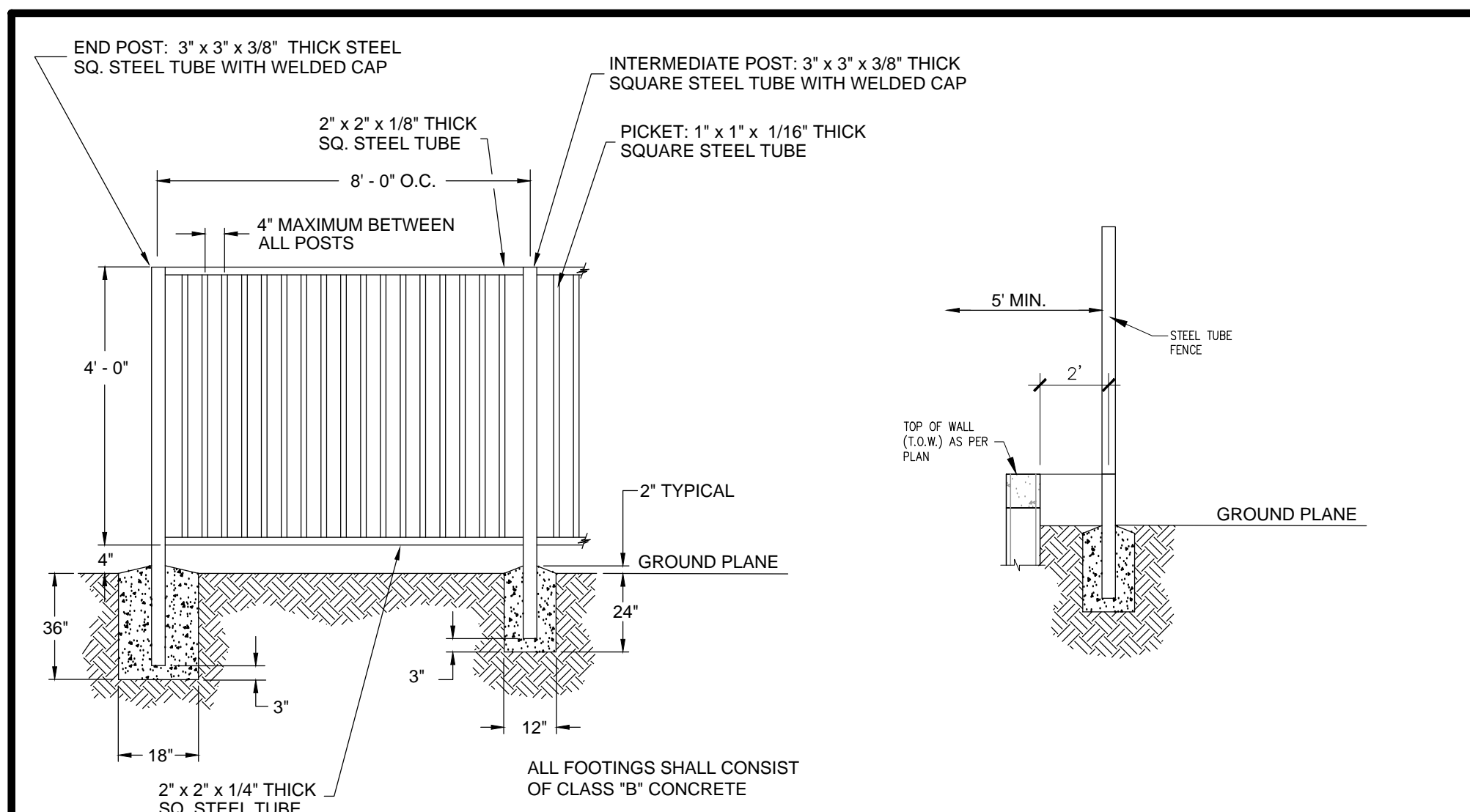
- NOTES
1. ALL WELDED JOINTS SHALL BE FREE OF SHARP EDGES AND/OR BURRS.
 2. ALL METAL SURFACES SHALL RECEIVE ONE SHOP COAT OF METAL PRIMER AND TWO COATS OF *INDUSTROW* RUST RESISTANT PAINT (OR APPROVED EQUAL). COLOR TO MATCH SITE METAL WORK.
 3. SINGLE ACCESS GATE SHALL BE 4' WIDE (MIN.) AND VEHICLE ACCESS SHALL REQUIRE TWO 10' WIDE (MIN.) GATES.
 4. FIELD VERIFY ALL GATE OPENINGS AND FABRICATE GATES TO FIT.
 5. CONTRACTOR SHALL SUBMIT DESIGN DRAWINGS OF GATE LOCKING SYSTEM TO THE CITY ENGINEER FOR APPROVAL.

STEEL TUBE FENCING AND GATE

CO. OF YUMA STD. NO. 3-321

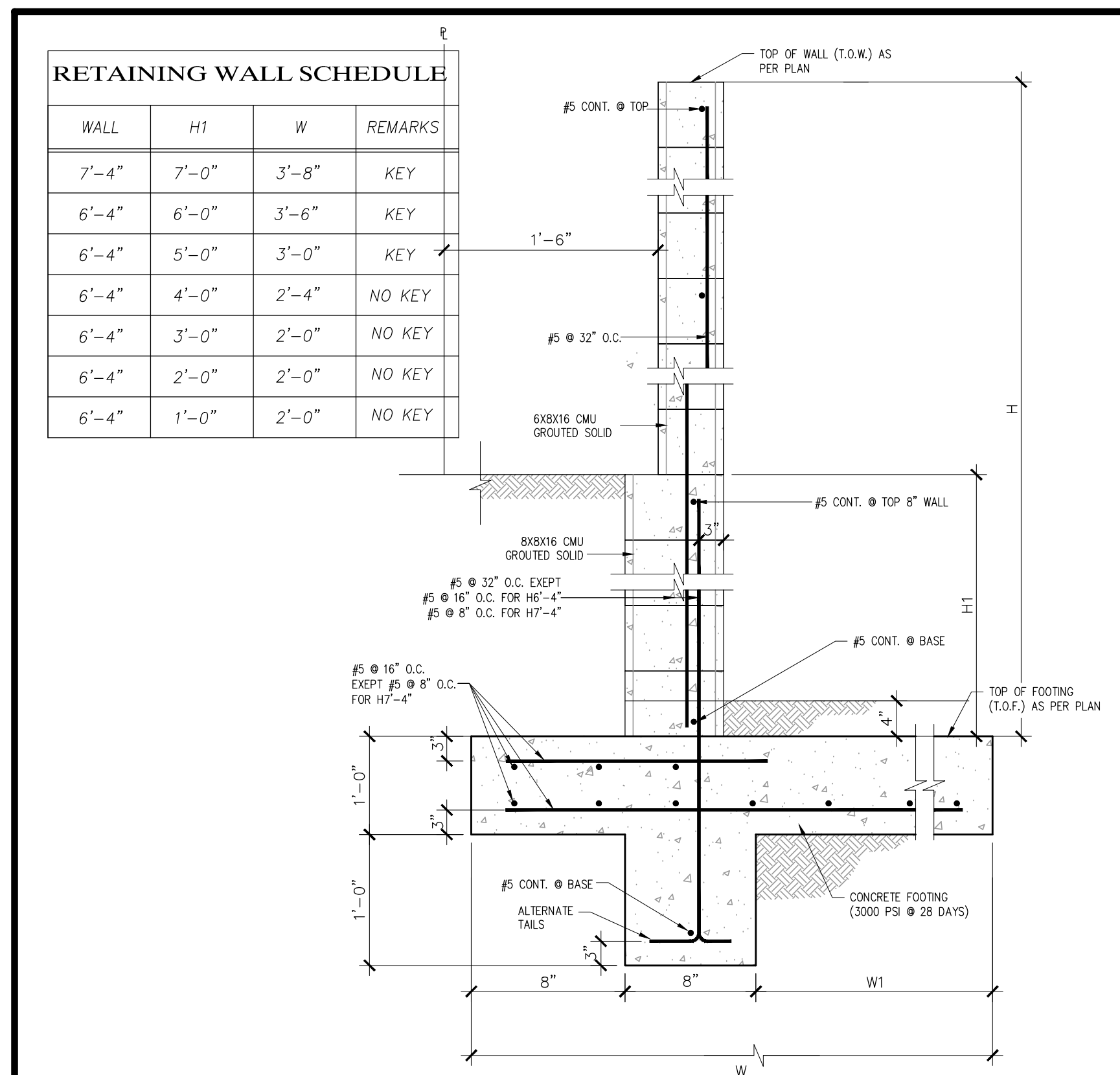
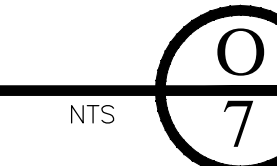


CONCRETE SPILLWAY

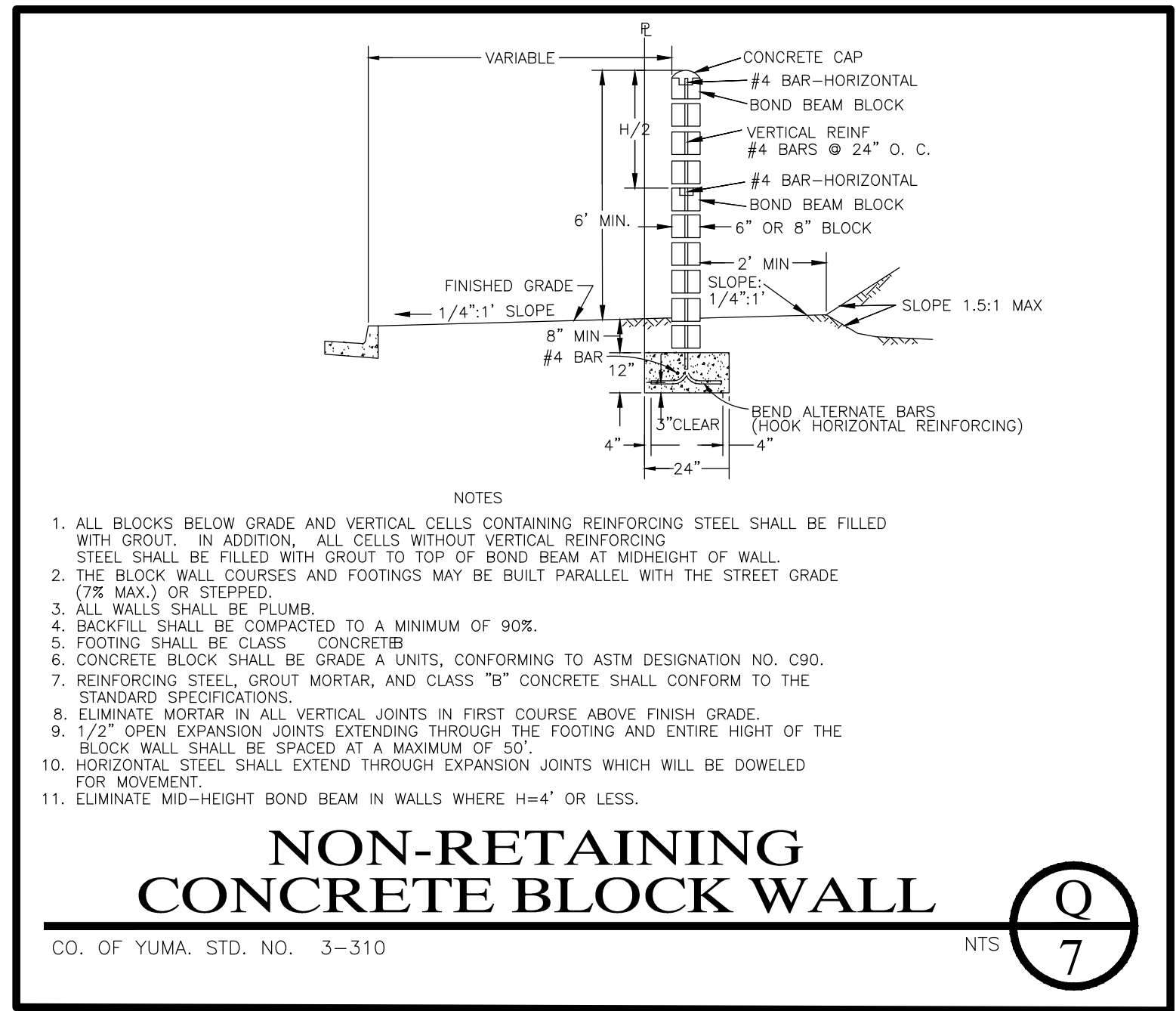
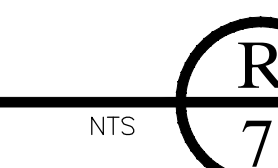


- NOTES
1. ALL WELDED JOINTS SHALL BE FREE OF SHARP EDGES AND/OR BURRS.
 2. ALL METAL SURFACES SHALL RECEIVE ONE SHOP COAT OF METAL PRIMER AND TWO COATS OF *INDUSTROW* RUST RESISTANT PAINT (OR APPROVED EQUAL). COLOR TO MATCH SITE METAL WORK.

STEEL TUBE FENCING



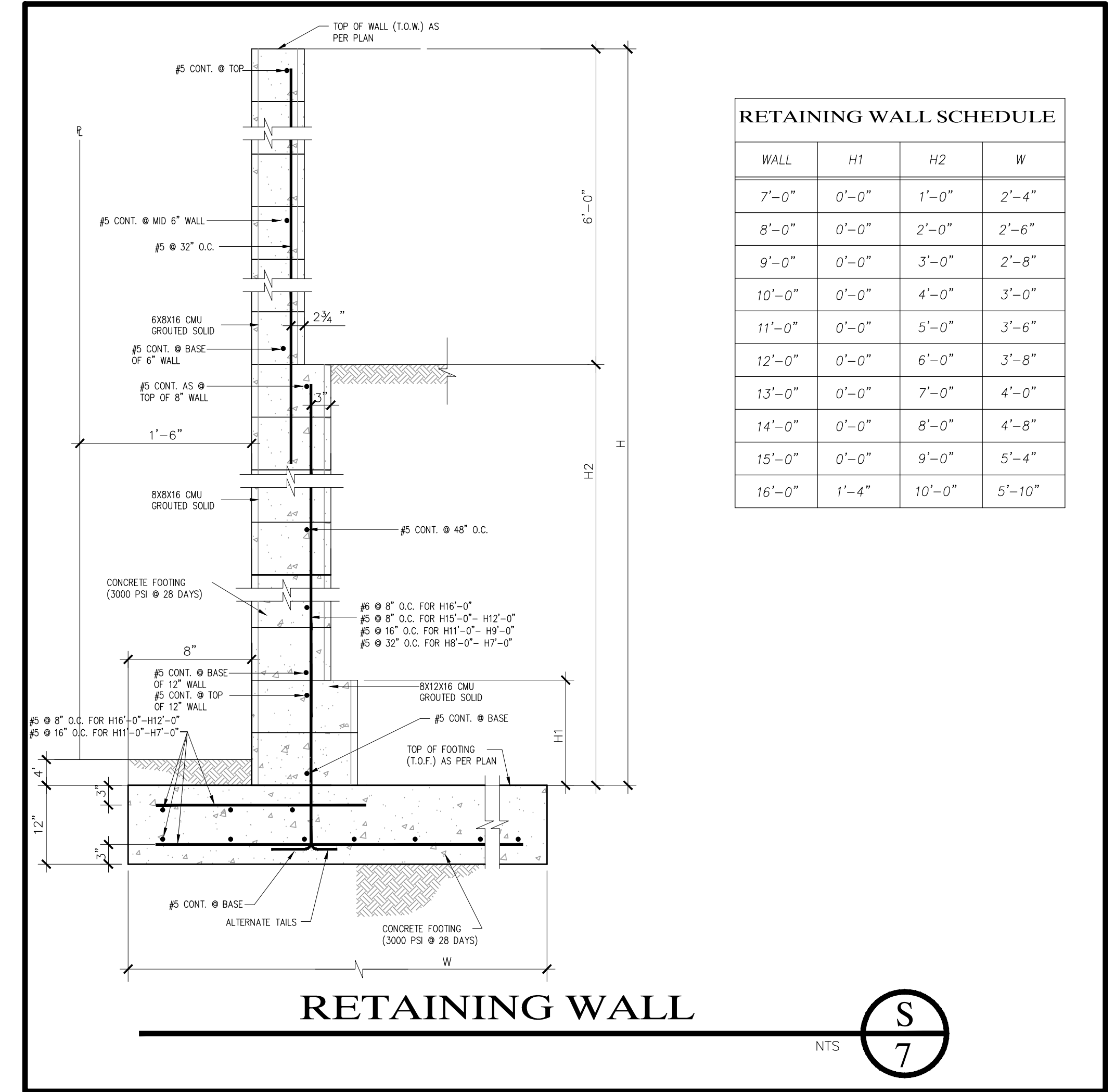
RETAINING WALL



- NOTES
1. ALL BLOCKS BELOW GRADE AND VERTICAL CELLS CONTAINING REINFORCING STEEL SHALL BE FILLED WITH GROUT. IN ADDITION, ALL CELLS WITHOUT VERTICAL REINFORCING STEEL SHALL BE FILLED WITH GROUT TO TOP OF BOND BEAM AT MIDHEIGHT OF WALL.
 2. THE BLOCK WALL COURSES AND FOOTINGS MAY BE BUILT PARALLEL WITH THE STREET GRADE (7% MAX.) OR STEPPED.
 3. ALL WALLS SHALL BE PLUMB.
 4. BACKFILL SHALL BE COMPACTED TO A MINIMUM OF 90%.
 5. FOOTING SHALL BE CLASS 'B' CONCRETE.
 6. CONCRETE BLOCK SHALL BE GRADE A UNITS, CONFORMING TO ASTM DESIGNATION NO. C90.
 7. REINFORCING STEEL, GROUT MORTAR, AND CLASS 'B' CONCRETE SHALL CONFORM TO THE STANDARD SPECIFICATIONS.
 8. ELIMINATE MORTAR IN ALL VERTICAL JOINTS IN FIRST COURSE ABOVE FINISH GRADE.
 9. 1/2\"/>

NON-RETAINING CONCRETE BLOCK WALL

CO. OF YUMA, STD. NO. 3-310



RETAINING WALL SCHEDULE

WALL	H1	H2	W
7'-0"	0'-0"	1'-0"	2'-4"
8'-0"	0'-0"	2'-0"	2'-6"
9'-0"	0'-0"	3'-0"	2'-8"
10'-0"	0'-0"	4'-0"	3'-0"
11'-0"	0'-0"	5'-0"	3'-6"
12'-0"	0'-0"	6'-0"	3'-8"
13'-0"	0'-0"	7'-0"	4'-0"
14'-0"	0'-0"	8'-0"	4'-8"
15'-0"	0'-0"	9'-0"	5'-4"
16'-0"	1'-4"	10'-0"	5'-10"

RETAINING WALL



Naje K. Edais
Professional Engineer
License No. 28844
State of Arizona

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

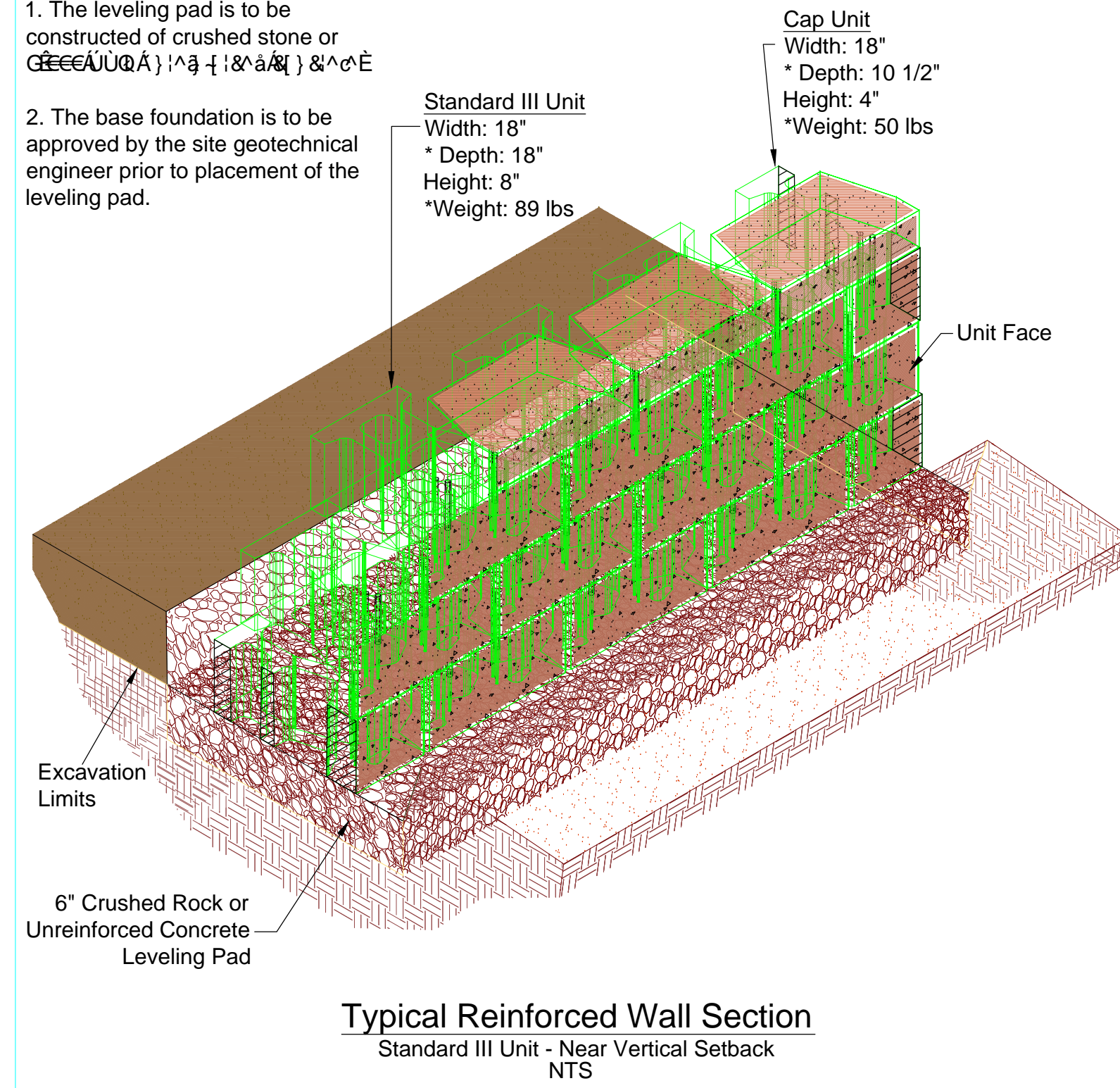
PAVING & GRADING DETAILS

SCALE: AS SHOWN DESIGNED BY: N.K.E. CHECKED BY: N.K.E.
DATE: DEC. 16 DRAWN BY: STAFF JOB No. 14-015

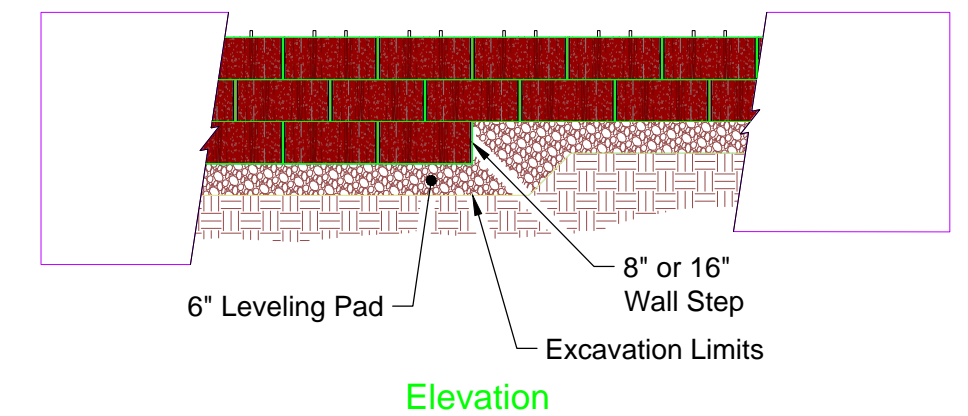
Edais Engineering, Inc.
PLANNING-ENGINEERING-ARCHITECTURE
3075 S. AVE. 4E Yuma, Arizona 85385
(928) 344-3566 FAX (928) 341-1075
EMAIL: EE@Edaisengineering.com

SHEET 7

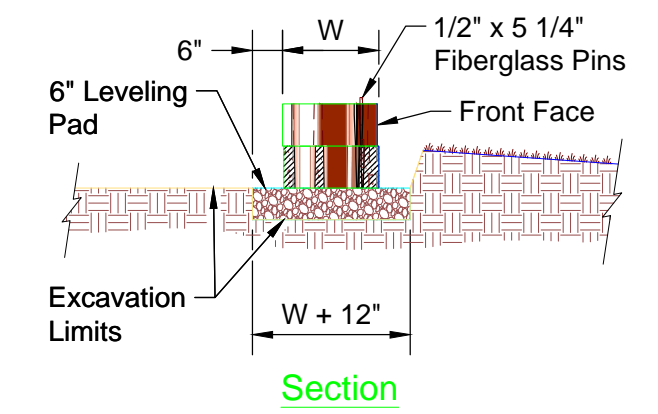
Base Leveling Pad Notes:
 1. The leveling pad is to be constructed of crushed stone or concrete.
 2. The base foundation is to be approved by the site geotechnical engineer prior to placement of the leveling pad.



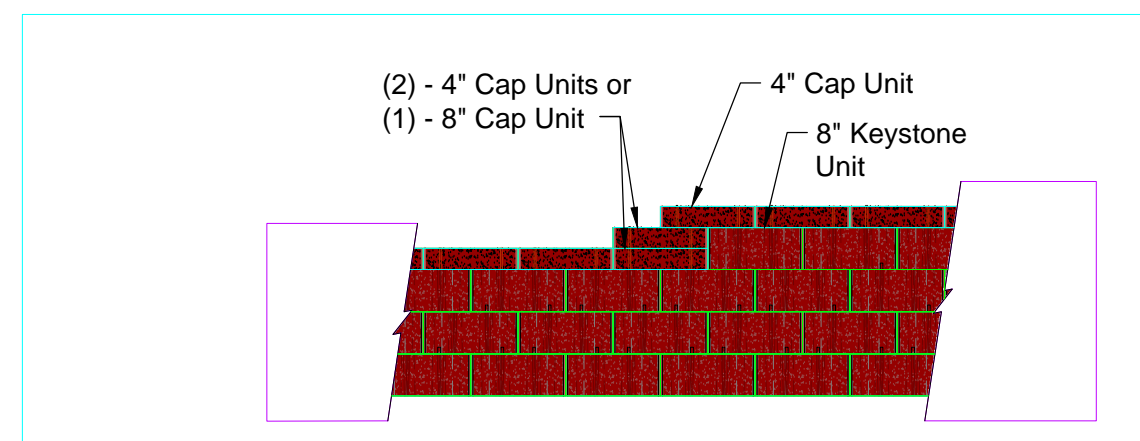
Typical Reinforced Wall Section
 Standard III Unit - Near Vertical Setback
 NTS



Note:
 1. The leveling pad is to be constructed of concrete.

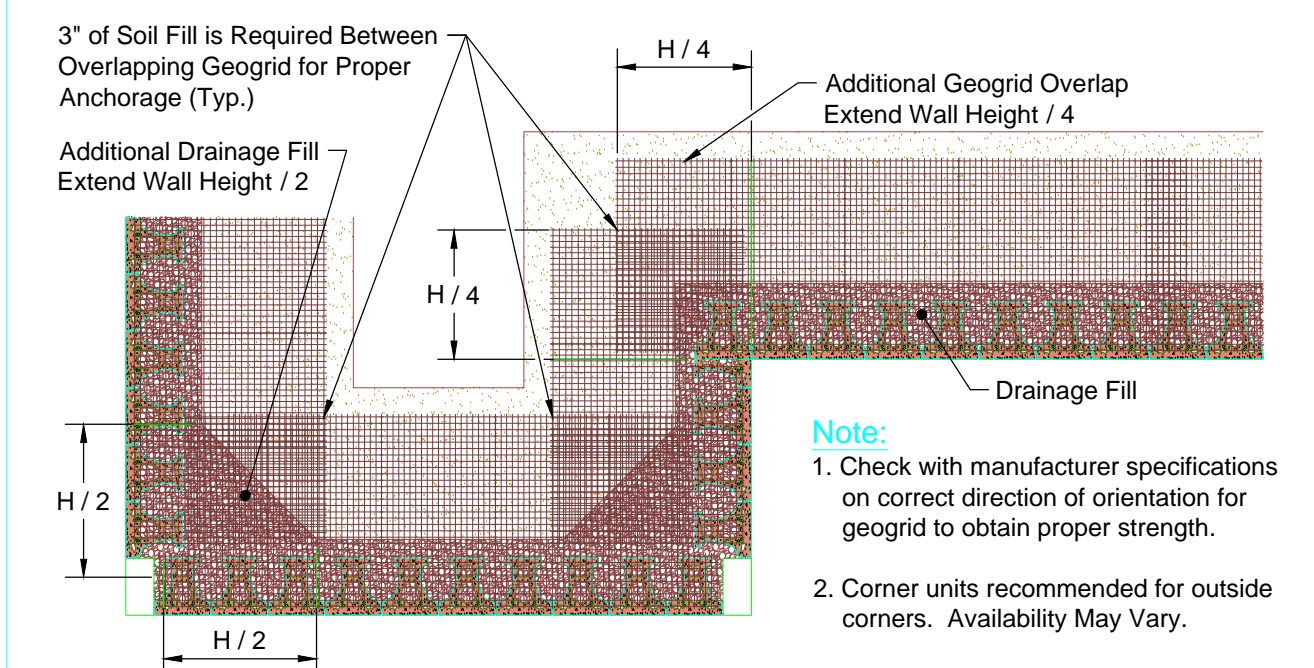


Leveling Pad Detail



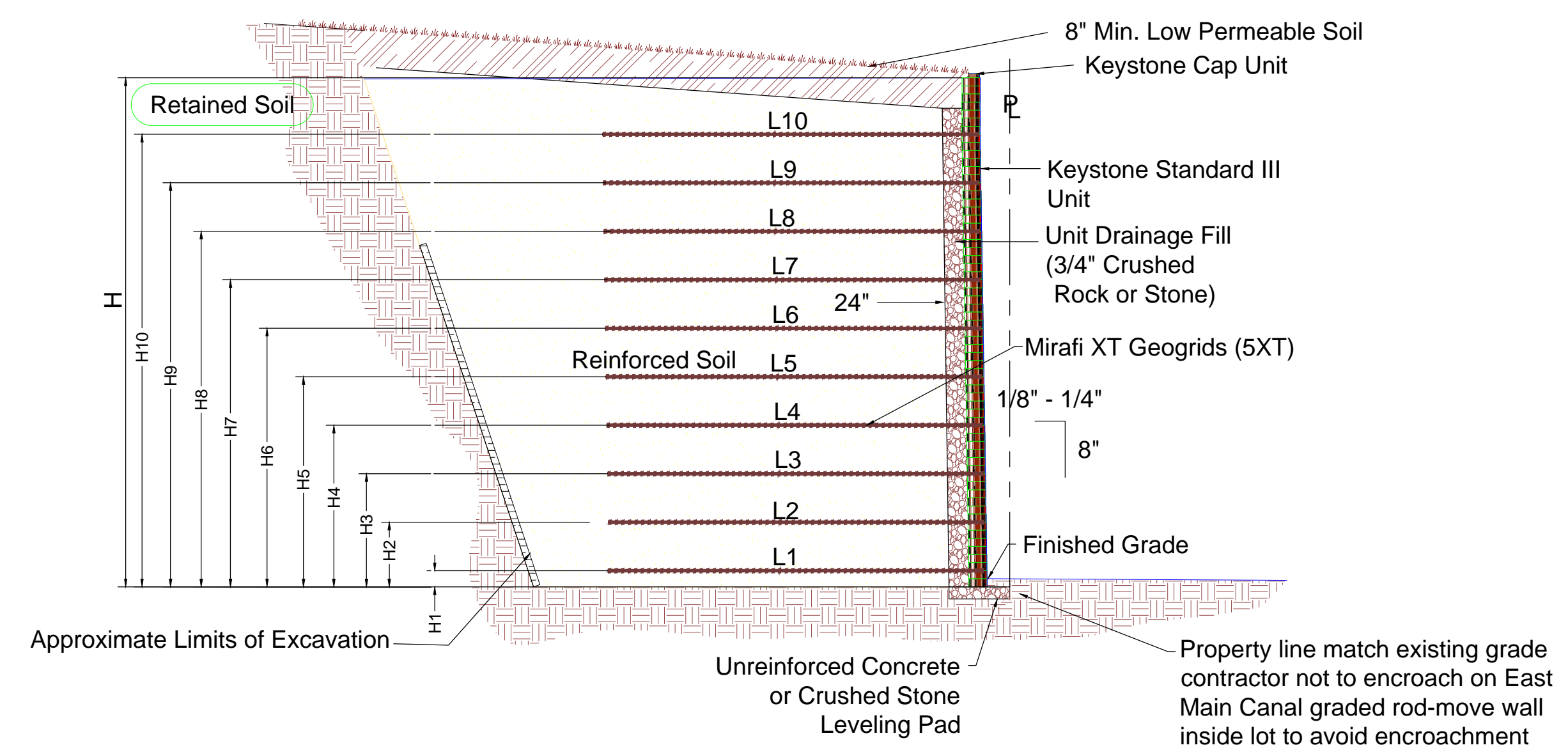
Note:
 1. Secure all cap units with Keystone Kapseal or equal.

Top of Wall Steps

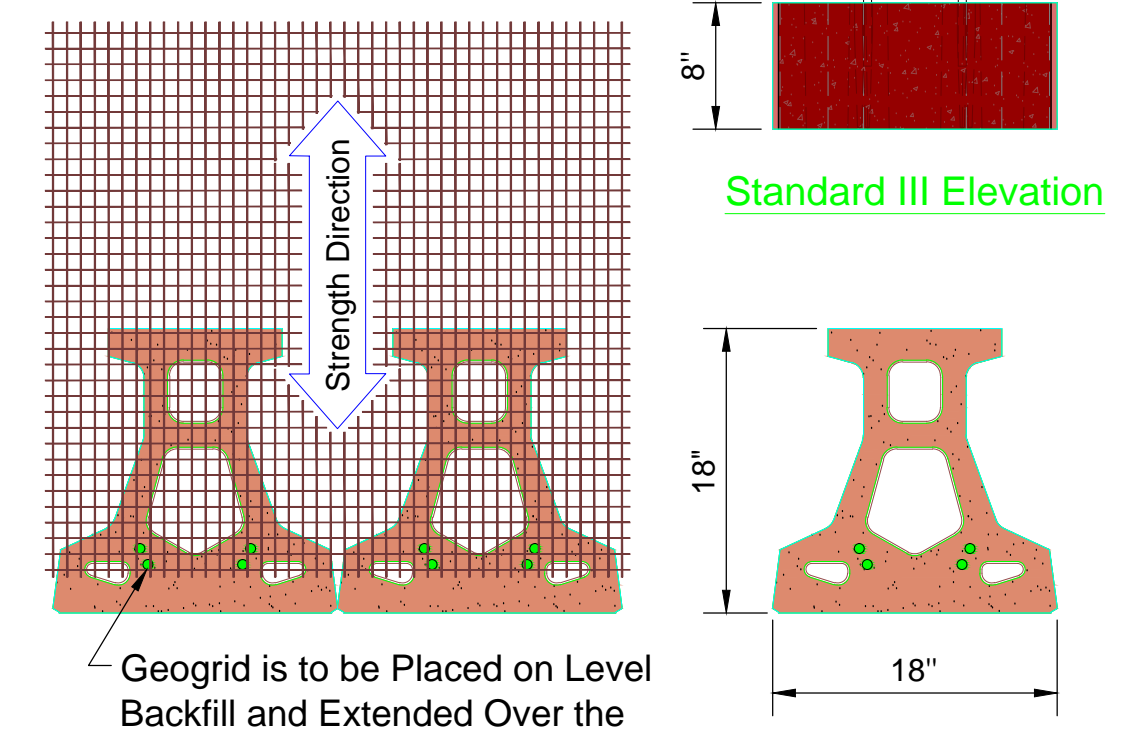


Note:
 1. Check with manufacturer specifications on correct direction of orientation for geogrid to obtain proper strength.
 2. Corner units recommended for outside corners. Availability May Vary.

Geogrid Installation at Corners



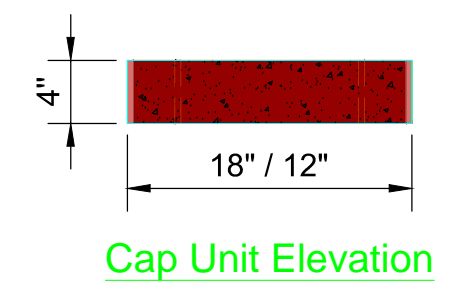
Typical Reinforced Wall Section
 Standard III Unit - Near Vertical Setback
 NTS



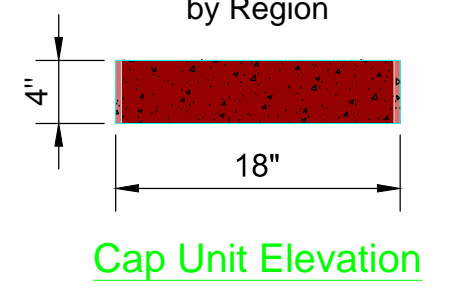
Geogrid is to be Placed on Level Backfill and Extended Over the Fiberglass Pins. Place Next Unit. Pull Grid Taught and Backfill. Stake as required.

Grid & Pin Connection

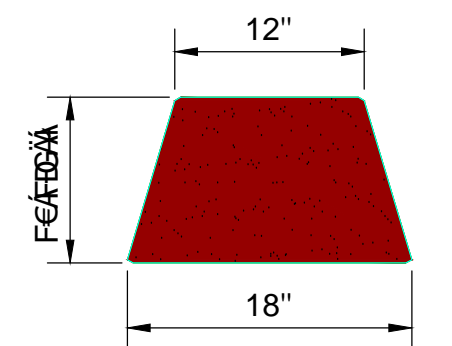
Standard III Unit
 *Dimensions May Vary by Region



Cap Unit Elevation

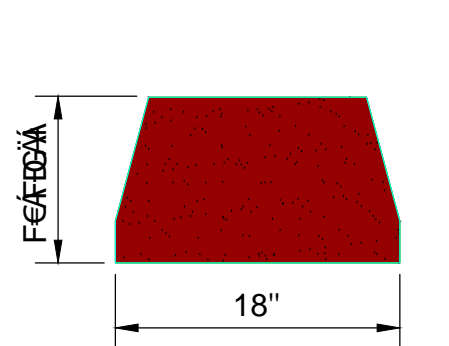


Cap Unit Elevation



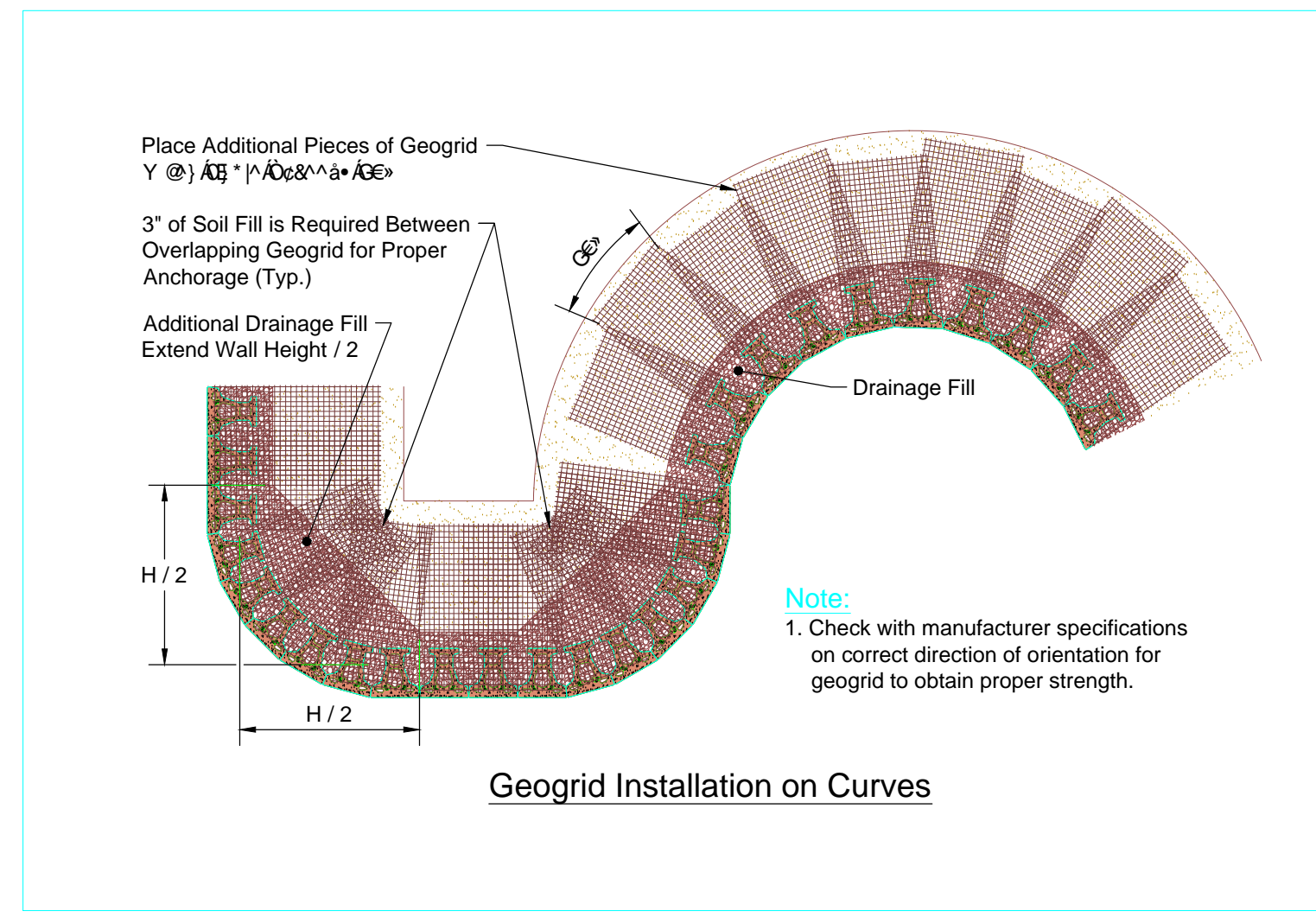
Cap Unit Plan

Universal Cap Unit Option
 *Dimensions & Availability Will Vary by Region



Cap Unit Plan

Straight Split Cap Unit Option
 *Dimensions & Availability Will Vary by Region



Note:
 1. Check with manufacturer specifications on correct direction of orientation for geogrid to obtain proper strength.

Geogrid Installation on Curves

WALL HIGH H FEET	MIRAFI 5XT GEOGRID LOCATION										MIRAFI 5XT GEOGRID LENGTH									
	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	L1	L2	L3	L4	L5	L6	L7	L8	L9	L10
6	1.33	4.00									4.50	6.00								
7	2.00	4.67									5.50	6.50								
8	0.67	3.33	6.00								5.00	5.50	7.50							
9	1.33	4.00	6.67								5.50	6.00	8.00							
10	2.67	5.33	8.00								6.00	6.50	8.50							
11	0.67	3.33	6.00	8.67							7.00	7.00	7.00	9.00						
12	2.00	4.67	7.33	10.00							7.50	7.50	8.00	10.00						
13	1.33	3.33	5.33	8.00	10.67						8.00	8.00	8.00	8.50	10.00					
14	1.33	4.00	6.67	9.33	12.00						8.50	8.50	8.50	9.00	10.00					
15	0.67	2.67	4.67	7.33	10.00	12.67					9.00	9.00	9.00	9.00	9.50	11.50				
16	0.67	3.33	6.00	8.67	11.33	14.00					10.00	10.00	10.00	10.00	10.50	12.00				
17	0.67	2.00	4.00	6.67	9.33	12.00	14.00				10.50	10.50	10.50	10.50	10.50	10.50	12.50			
18	1.33	3.33	5.33	8.00	10.67	13.33	16.00				11.00	11.00	11.00	11.00	11.00	11.50	13.50			
19	1.33	2.67	4.00	6.00	8.67	11.33	14.00	16.67			11.50	11.50	11.50	11.50	11.50	12.00	14.00			
20	0.67	2.00	3.33	5.33	7.33	10.00	12.67	15.33	13.00		12.00	12.00	12.00	12.00	12.00	12.00	12.50	14.50		
21	1.33	2.67	4.00	6.00	8.00	10.67	13.33	16.00	18.67		18.00	13.00	13.00	13.00	13.00	13.00	13.00	13.00	15.00	

Wall Schedule

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LAS QUINTAS DE SAN LUIS II SUBDIVISION

PAVING & GRADING PLAN

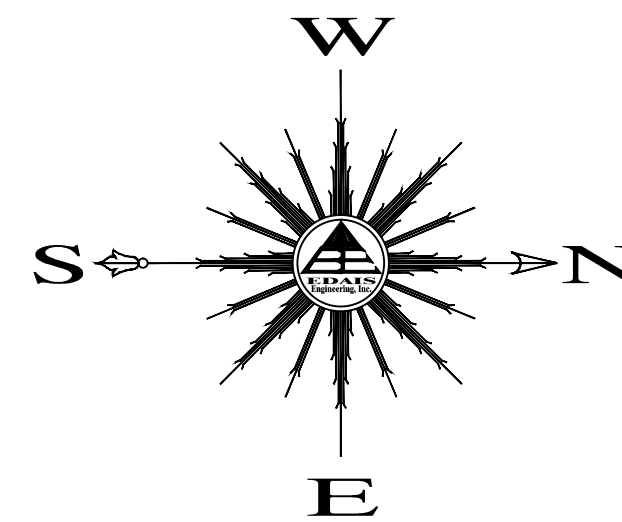
SCALE: AS SHOWN DESIGNED BY: NKE CHECKED BY: NKE
 DATE: OCT. 16 DRAWN BY: STAFF JOB No. 14-015

SHEET
7A

CALL TWO WORKING DAYS BEFORE YOU DIG
 263-1100
 1-800-STAKE-IT
 (OUTSIDE MARICOPA COUNTY)

LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- W NEW PVC WATER MAIN
- S NEW PVC SEWER LINE
- (20) NEW LOT NUMBER
- (135) FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH NEW MANHOLE
- RIM. NEW RIM ELEVATION
- INV. NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- EXISTING WATER VALVE

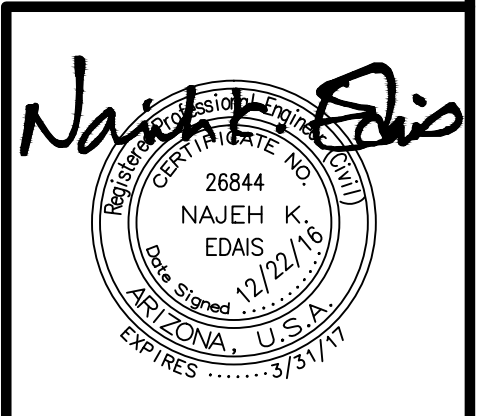


WATER / SEWER CONSTRUCTION KEYNOTES

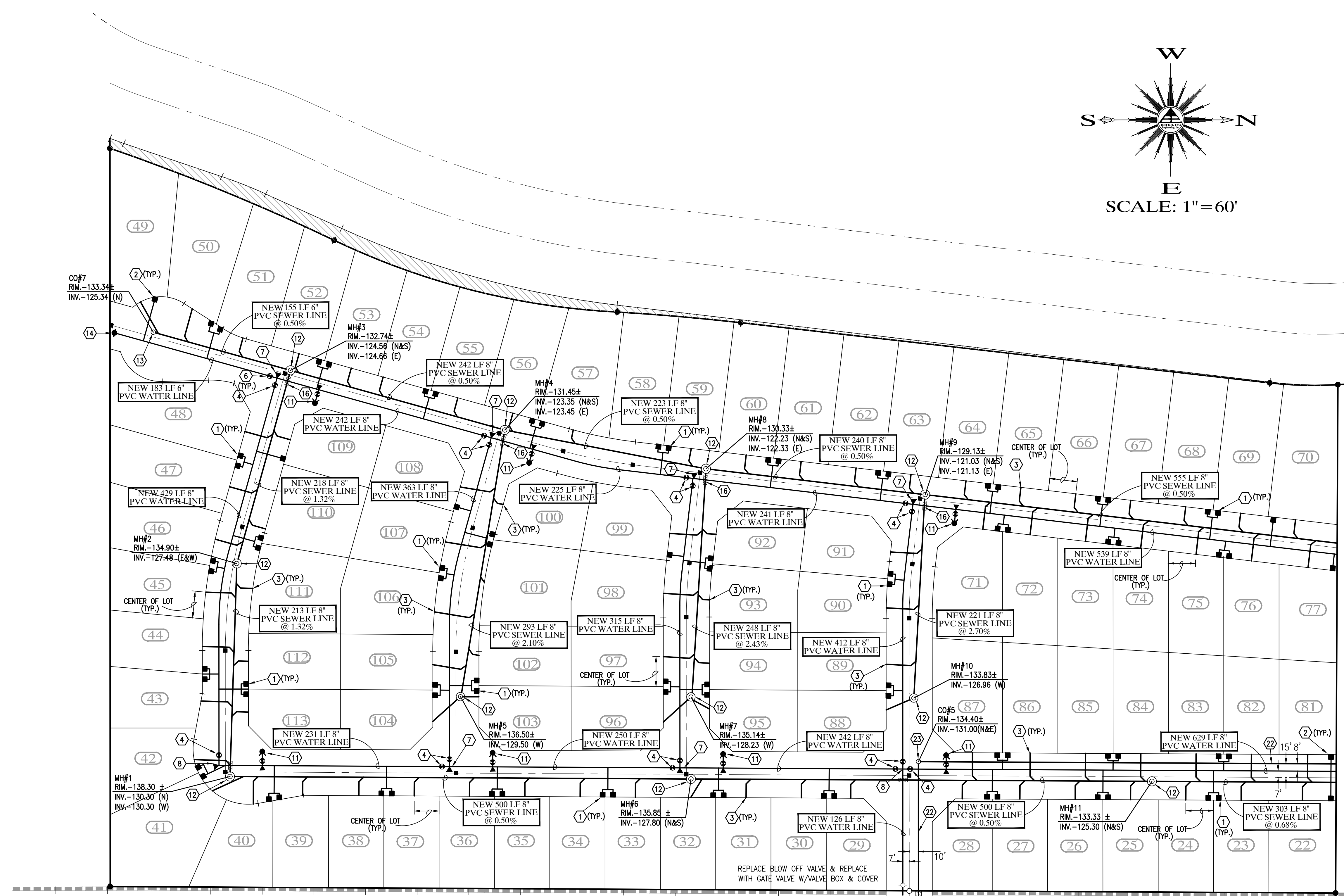
- 1 INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A/B, C/D, E/F)
- 2 INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A/B, C/D, E/F)
- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H)
- 4 INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P, Q, R)
- 5 INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P, Q, R)
- 6 INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P, Q, R)
- 7 INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O, P)
- 8 INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O, P)
- 9 INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O, P)
- 10 INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O, P)
- 11 INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (I, J)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (L, M)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M, N)
- 14 INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (L, M)
- 15 INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (O, P)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (I, J)
- 17 INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S, T)
- 18 INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O, P)
- 19 INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O, P)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21 INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (F, G)
- 22 NEW 4" PVC C-900 SEWER FORCE MAIN
- 23 NEW FORCEMAIN PRESSURE CLEANOUT - SEE DETAIL (Y, Z)
- 24 PAVEMENT REPLACEMENT - SEE DETAIL (Z)

UTILITY WARNING

THE UNDERGROUND UTILITIES SHOWN HAVE BEEN LOCATED FROM FIELD SURVEY INFORMATION AND EXISTING DRAWINGS. THE SURVEYOR MAKES NO GUARANTEE THAT THE UNDERGROUND UTILITIES SHOWN COMPRISE ALL SUCH UTILITIES IN THE AREA, EITHER IN SERVICE OR ABANDONED. THE SURVEYOR FURTHER DOES NOT WARRANT THAT THE UNDERGROUND UTILITIES SHOWN ARE IN THE EXACT LOCATION INDICATED ALTHOUGH HE DOES CERTIFY THAT THEY ARE LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION AVAILABLE. THE SURVEYOR HAS NOT PHYSICALLY LOCATED THE UNDERGROUND UTILITIES.



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19 18 17 16 15 14 13 12 11 10 9 8 7 6 5 4 3 2 1 134 133 132 131 130 129
 A.P.N. 776-12-017 A.P.N. 776-12-016 A.P.N. 776-12-015 A.P.N. 776-12-014 776-12-013 776-12-012 776-12-011 776-12-010 776-12-009 776-12-008 776-12-007 776-12-006 776-12-005 776-12-004 776-12-003 776-12-002 776-12-001 A.P.N. 776-12-264 776-12-263 776-12-262 776-12-261 776-12-260

BIENESTAR ESTATES No. 7A
 BOOK 18, PAGE 11, Y.C.R.

LAS QUINTAS DE SAN LUIS
 SUBDIVISION PHASE 2
 BK 17, PG. 85, Y.C.R.

(MH #10)
 RIM. -134.71±
 INV. -130.21 E
 INV. -130.31 N&S
 INV. -131.00 W

**LAS QUINTAS DE SAN LUIS 2
 SUBDIVISION**

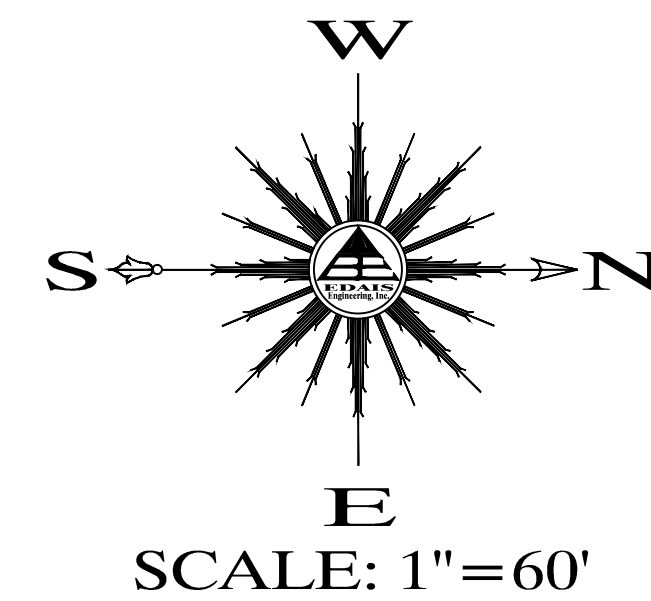
WATER & SEWER PLAN

SCALE: AS SHOWN DESIGNED BY: NKE CHECKED BY: NKE
 DATE: DEC 16" DRAWN BY: STAFF JOB No. 14-015

EDAIS
 Engineering, Inc.

3075 S. Ave. 44E
 (928) 344-3666 FAX (928) 341-1075
 EMAIL: najeh@edaigroup.com

SHEET 8



LEGEND

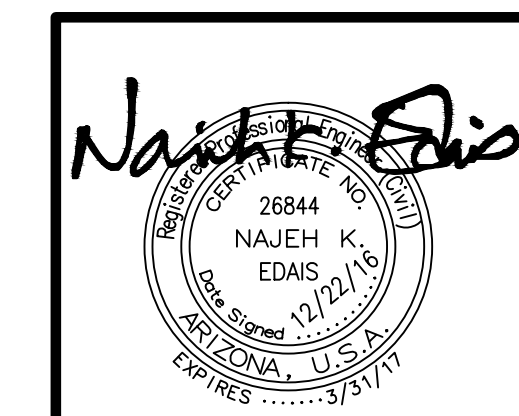
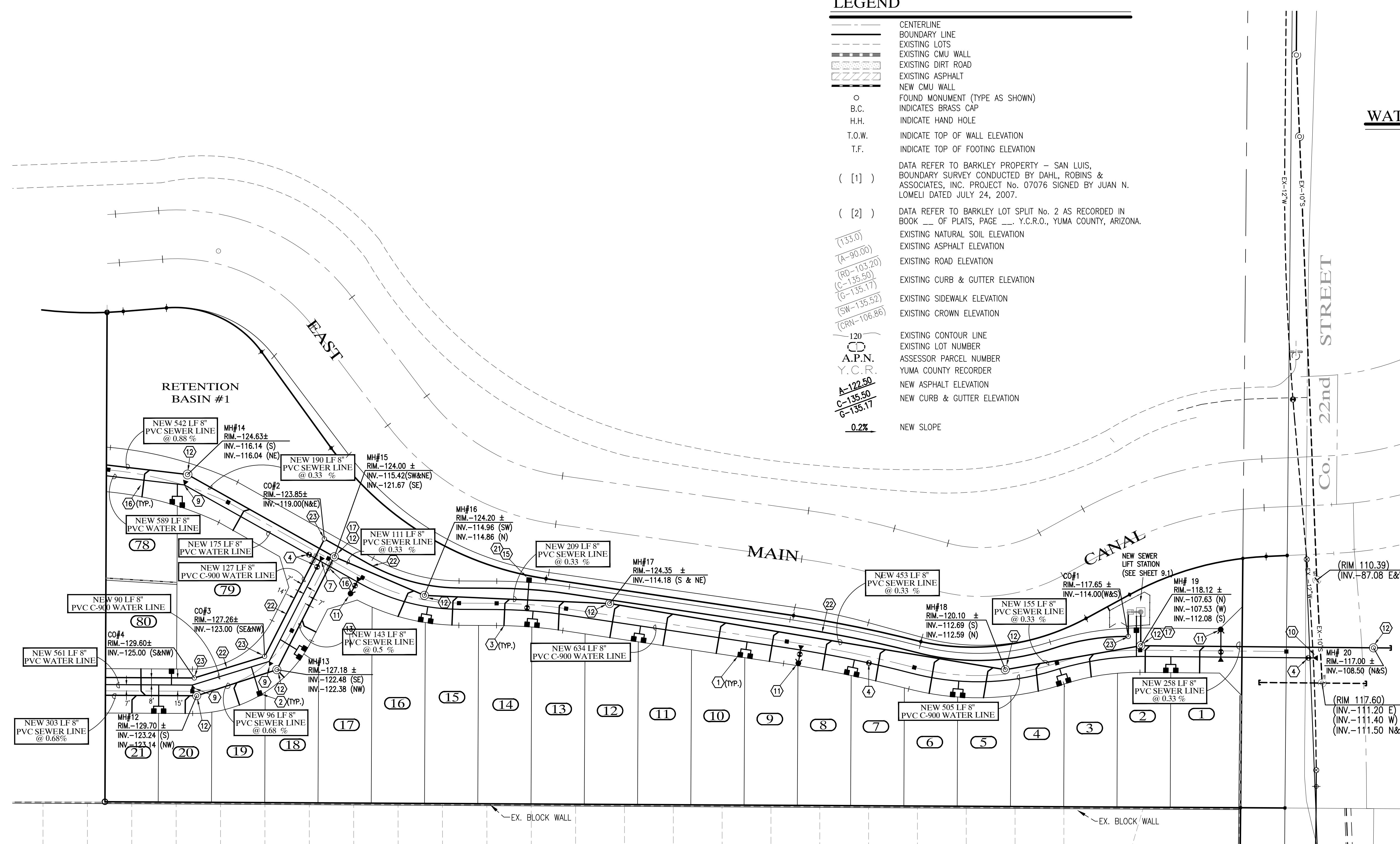
- CENTERLINE
- BOUNDARY LINE
- EXISTING LOTS
- EXISTING CMU WALL
- EXISTING DIRT ROAD
- EXISTING ASPHALT
- NEW CMU WALL
- FOUND MONUMENT (TYPE AS SHOWN)
- B.C. INDICATES BRASS CAP
- H.H. INDICATE HAND HOLE
- T.O.W. INDICATE TOP OF WALL ELEVATION
- T.F. INDICATE TOP OF FOOTING ELEVATION
- ([1]) DATA REFER TO BARKLEY PROPERTY - SAN LUIS, BOUNDARY SURVEY CONDUCTED BY DAHL, ROBINS & ASSOCIATES, INC. PROJECT No. 07076 SIGNED BY JUAN N. LOMELI DATED JULY 24, 2007.
- ([2]) DATA REFER TO BARKLEY LOT SPLIT No. 2 AS RECORDED IN BOOK ___ OF PLATS, PAGE ___, Y.C.R.D., YUMA COUNTY, ARIZONA.
- (133.0) EXISTING NATURAL SOIL ELEVATION
- (A-90.00) EXISTING ASPHALT ELEVATION
- (RD-103.20) EXISTING ROAD ELEVATION
- (C-135.50) EXISTING CURB & GUTTER ELEVATION
- (G-135.17) EXISTING SIDEWALK ELEVATION
- (SW-135.52) EXISTING SIDEWALK ELEVATION
- (CRN-106.86) EXISTING CROWN ELEVATION
- 120 EXISTING CONTOUR LINE
- EXISTING LOT NUMBER
- A.P.N. ASSESSOR PARCEL NUMBER
- Y.C.R. YUMA COUNTY RECORDER
- A-122.50 NEW ASPHALT ELEVATION
- C-135.50 NEW CURB & GUTTER ELEVATION
- G-135.17
- 0.2% NEW SLOPE

WATER / SEWER CONSTRUCTION KEYNOTES

- 1 INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (F14)
- 2 INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A14) (B14) (F14)
- 3 INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (I14)
- 4 INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (I15) (I16)
- 5 INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (I15) (I16)
- 6 INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (I15) (I16)
- 7 INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 8 INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 9 INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O15)
- 10 INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O15)
- 11 INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (I15)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- 13 CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- 14 INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N15)
- 15 INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (O15)
- 16 INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (I16)
- 17 INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S16)
- 18 INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 19 INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O15)
- 20 CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21 INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (I14)
- 22 NEW 4" PVC C-900 SEWER FORCE MAIN
- 23 NEW FORCEMAIN PRESSURE CLEANOUT - SEE DETAIL (I16)

UTILITY WARNING

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**LAS QUINTAS DE SAN LUIS 2
SUBDIVISION**

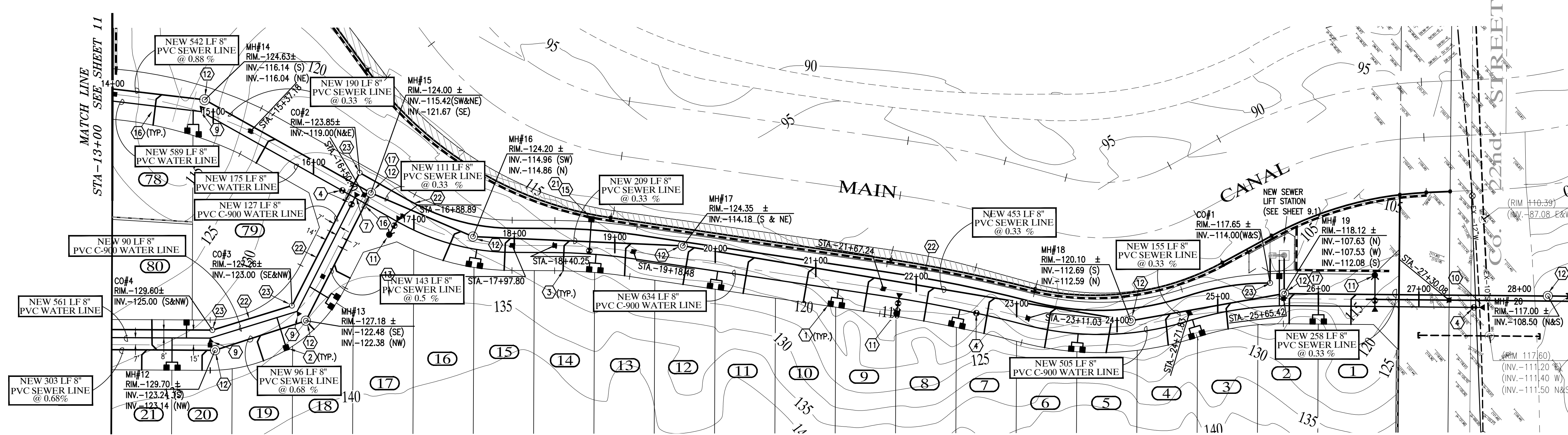
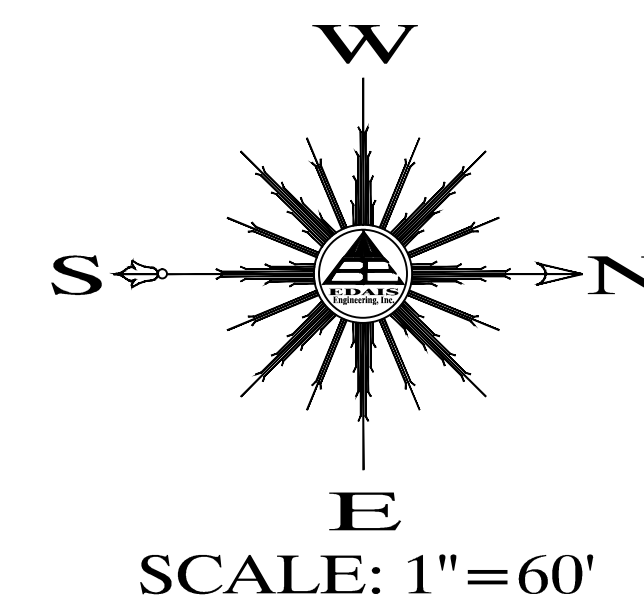
WATER & SEWER PLAN

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015

**Edais
Engineering, Inc.**

3075 S. Ave. 4E
(928) 344-3566
Yuma, Arizona 85365
FAX (928) 341-1075
EMAIL: najeh@edaisgroup.com

9

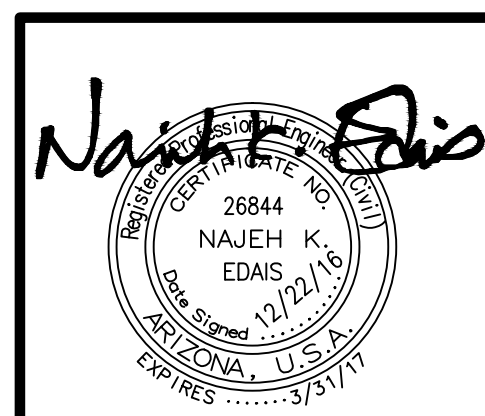


WATER / SEWER CONSTRUCTION KEYNOTES

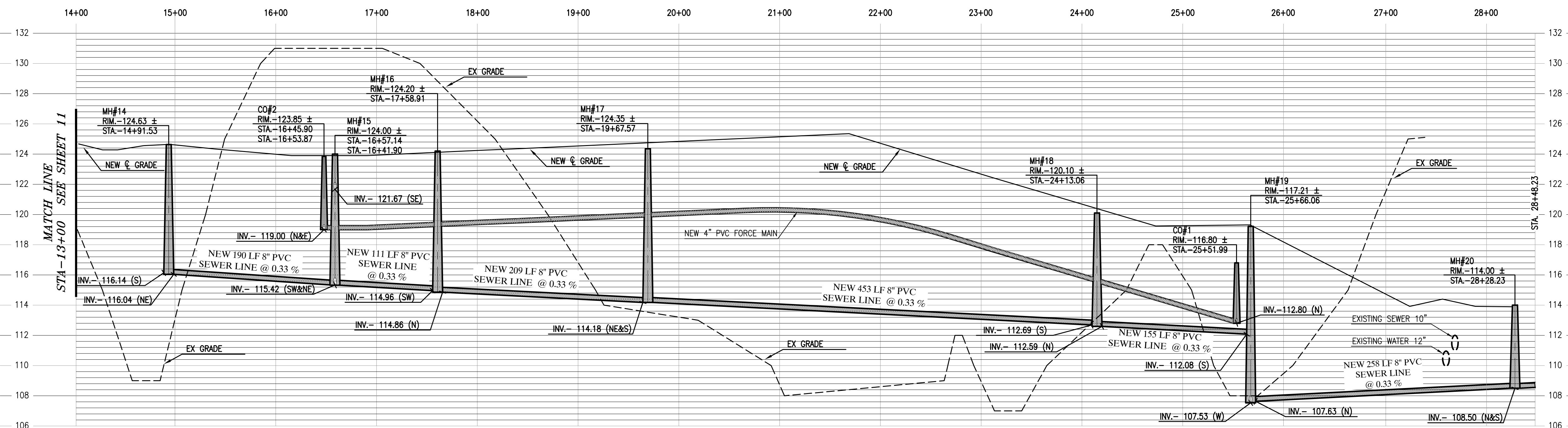
- 1) INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A, B, F)
- 2) INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A, B, F)
- 3) INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H)
- 4) INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P, D)
- 5) INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P, D)
- 6) INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P, D)
- 7) INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O, I)
- 8) INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O, I)
- 9) INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O, I)
- 10) INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O, I)
- 11) INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (I)
- 12) CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J, S)
- 13) CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M)
- 14) INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N)
- 15) INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (G, I)
- 16) INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T)
- 17) INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S)
- 18) INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O, I)
- 19) INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O, I)
- 20) CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21) INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (F)
- 22) NEW 4" PVC C-900 SEWER FORCE MAIN
- 23) NEW FORCEMAIN PRESSURE CLEANOUT - SEE DETAIL (Y)

UTILITY WARNING

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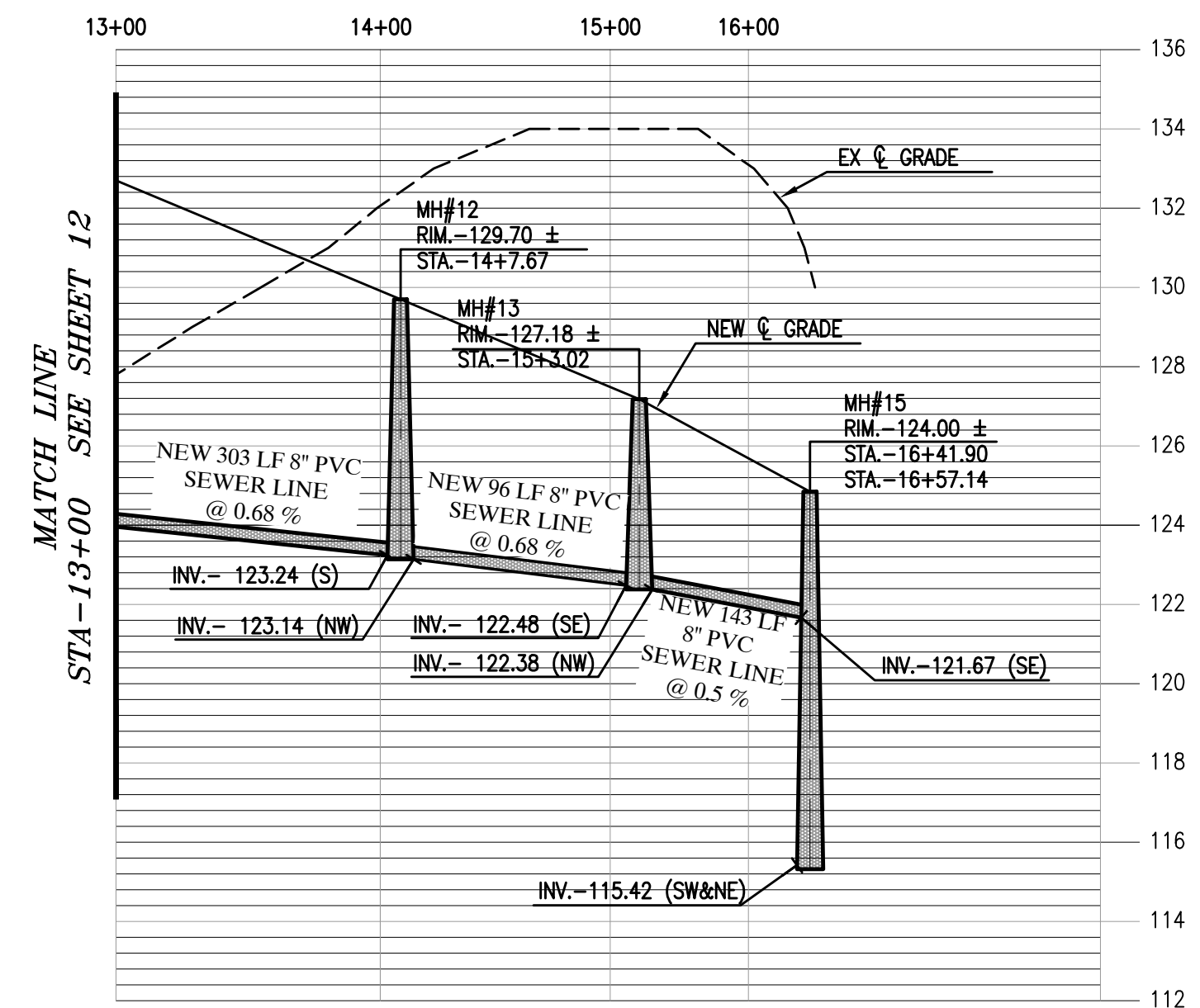
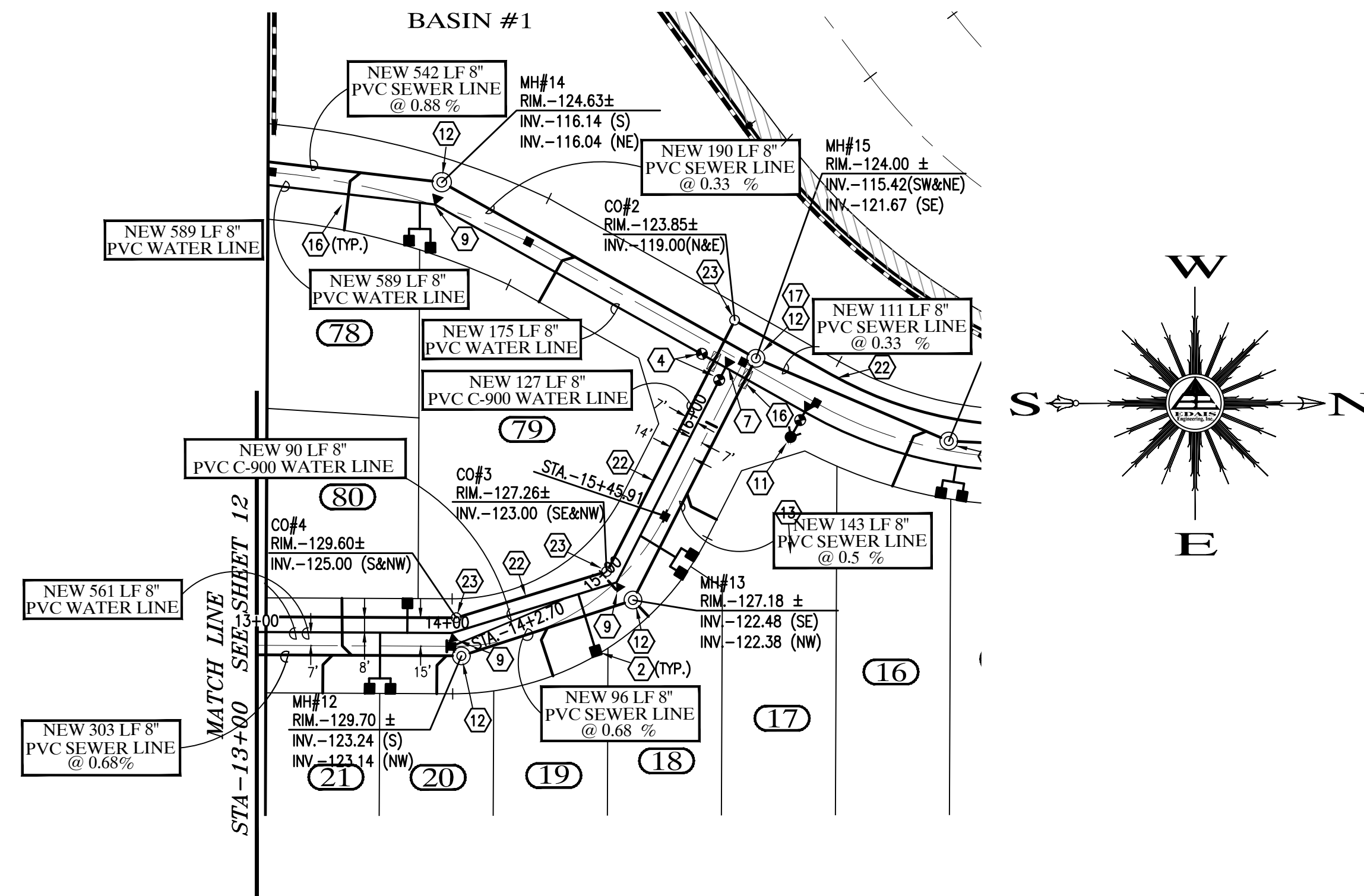
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION
WATER & SEWER PLAN & PROFILES

SCALE: AS SHOWN | DESIGNED BY: NKE | CHECKED BY: NKE
 DATE: JUL. 16 | DRAWN BY: STAFF | JOB No. 14-015

Edais Engineering, Inc.
 3076 S. Ave. 4E | Yuma, Arizona 85365
 (928) 344-3566 | FAX (928) 341-1075
 EMAIL: najeh@edaisgroup.com

SHEET 9A

SCALE: 1"=60'

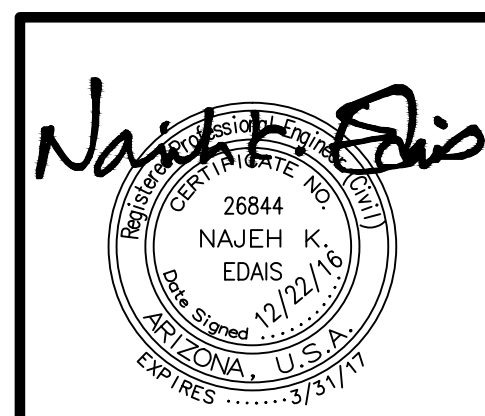


WATER / SEWER CONSTRUCTION KEYNOTES

- 1) INSTALL 1" DUAL WATER SERVICE (TYP.) - SEE DETAILS (A/B/F) (14/14/14)
- 2) INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A/B/F) (14/14/14)
- 3) INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H) (14)
- 4) INSTALL 8" GATE VALVE W/ V.B.&C. - SEE DETAILS (P/D) (15/16)
- 5) INSTALL 10" GATE VALVE W/ V.B.&C. - SEE DETAILS (P/D) (15/16)
- 6) INSTALL 6" GATE VALVE W/ V.B.&C. - SEE DETAILS (P/D) (15/16)
- 7) INSTALL 8" X 8" PVC TEE W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 8) INSTALL 90° ELL W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 9) INSTALL 45° ELL W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 10) INSTALL 12" X 8" TAPPING SLEEVE TEE W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 11) INSTALL 6" FIRE HYDRANT COMPLETE - SEE DETAIL (T) (15)
- 12) CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (T) (15)
- 13) CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M) (15)
- 14) INSTALL TEMPORARY WATER BLOWOFF VALVE - SEE DETAIL (N) (15)
- 15) INSTALL 2" BACKFLOW PREVENTOR W/ CAGE - SEE DETAIL (G) (15)
- 16) INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T) (16)
- 17) INSTALL TYPE "A" DROP SEWER CONNECTION - SEE DETAIL (S) (16)
- 18) INSTALL 8" X 8" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 19) INSTALL 10" X 10" PVC CROSS W/ THRUST BLOCK - SEE DETAILS (O) (15)
- 20) CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- 21) INSTALL 2" WATER SERVICE (TYP.) - SEE DETAILS (F) (14)
- 23) NEW FORCEMAIN PRESSURE CLEANOUT - SEE DETAIL (Y) (16)

UTILITY WARNING

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LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

WATER & SEWER PLAN & PROFILES

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015

Edais Engineering, Inc.

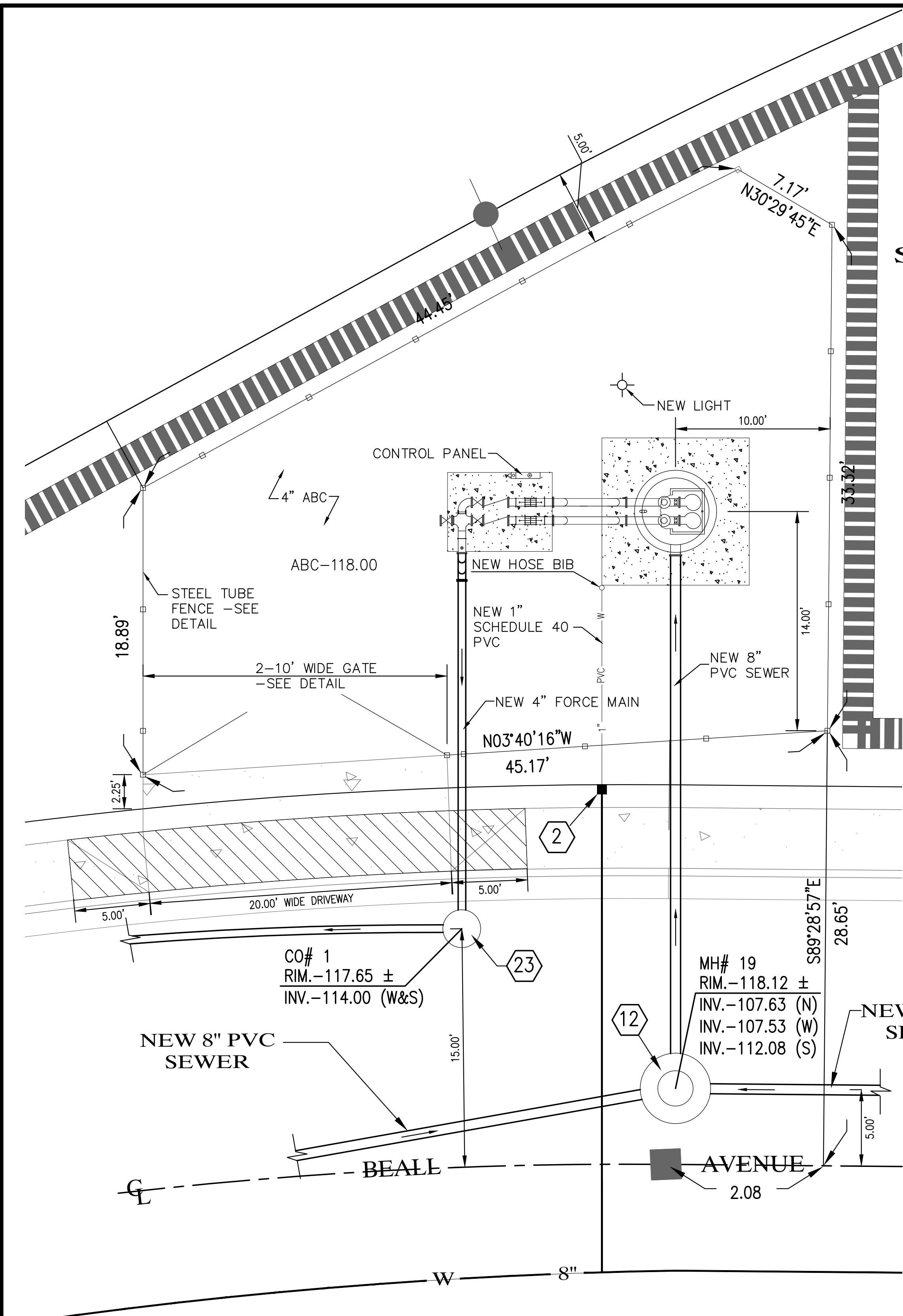
PLANNING-CIVIL-SURVEYING-GEOTECHNICAL

3076 S. AVE. 4E Yuma, Arizona 85365

(928) 344-3566 FAX (928) 341-1075

EMAIL: najeh@Edaisgroup.com

9B



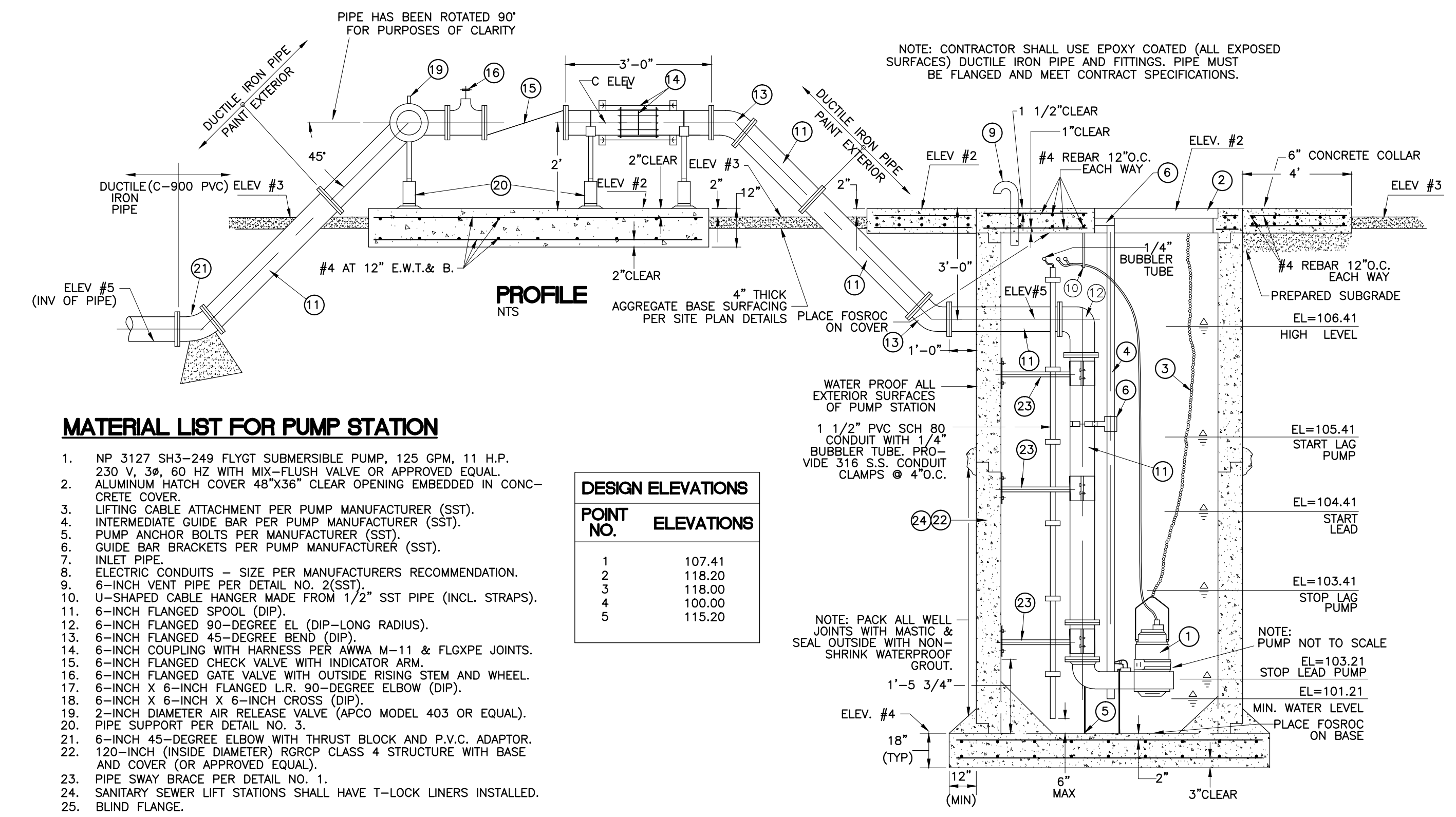
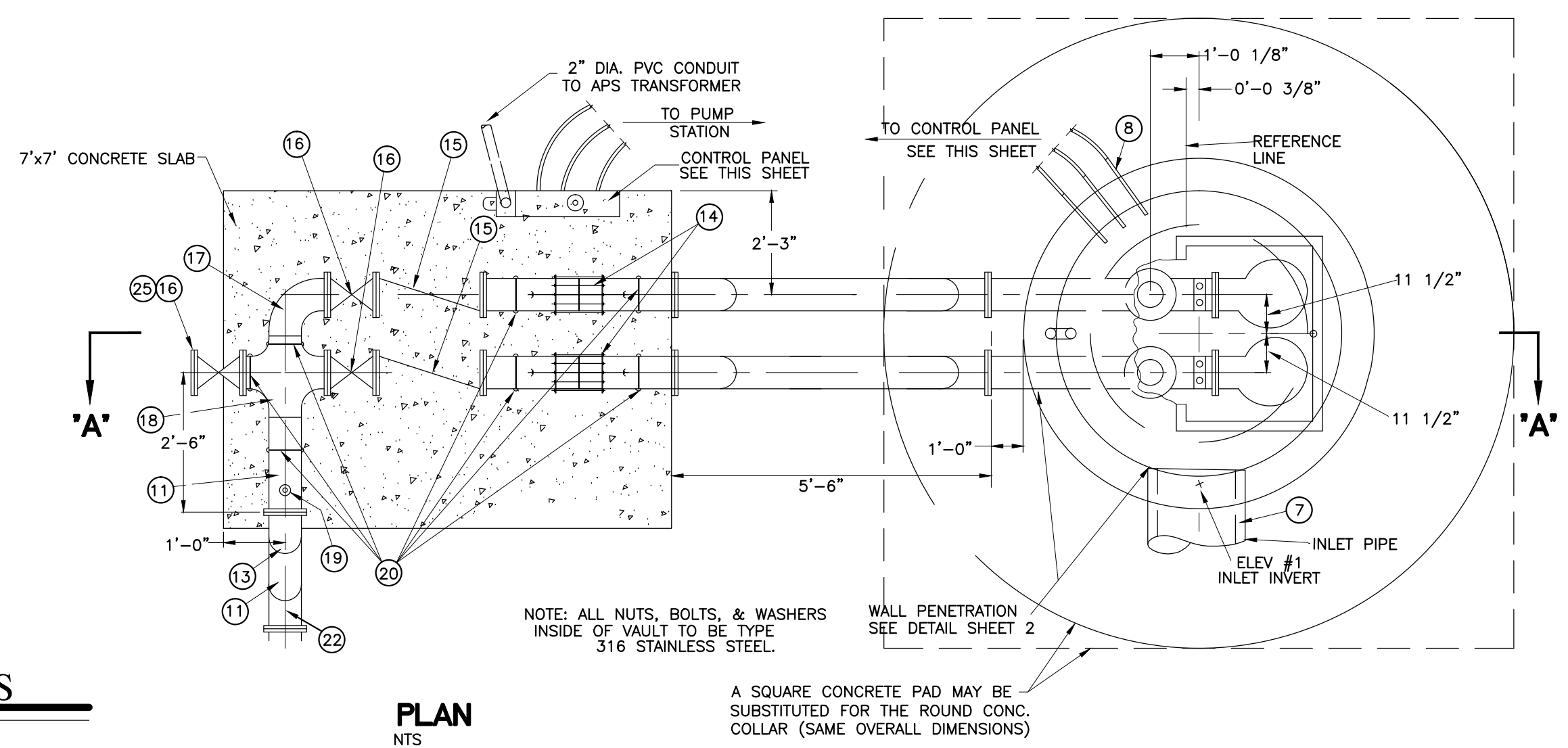
WATER / SEWER CONSTRUCTION KEYNOTES

- 2 INSTALL 1" SINGLE WATER SERVICE (TYP.) - SEE DETAILS (A1), (B1), (L1)
- 12 CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (I1), (L15)
- 23 NEW FORCE MAIN PRESSURE CLEANOUT - SEE DETAIL (Y16)

GENERAL NOTES

- INSTALL 1" WATER SERVICE AND PROVIDE HOSE BIB ADJACENT TO LIFT STATION STRUCTURE.
- PROVIDE ACCESS FOR LARGE SERVICE VEHICLES.
- DUSK TO DAWN LIGHTING SHALL BE INSTALLED.
- AN APPROPRIATE SHADE STRUCTURE SHALL BE CONSTRUCTED OVER THE CONTROL PANEL.
- PROVIDE 120V GFI PROTECTED CONVENIENCE OUTLET.
- T-LOCK LINERS SHALL BE INSTALLED INSIDE SANITARY SEWER LIFT STATIONS.
- PUMP CONTROLLER SHALL BE BY EG PUMP CONTROLS (OR APPROVED EQUAL) WITH PHASE CONTROLLERS, BUBBLER TYPE LEVEL CONTROL AND PUMP ALTERNATING CAPABILITIES.
- SEAL ALL CONDUIT COMING FROM LIFT STATION TO JUNCTION BOXES/CONTROL PANELS WITH DUCT SEAL TO PREVENT MIGRATION OF GAS.
- ADJACENT PROPERTIES SHALL DETERMINE THE PLACEMENT OF ACCESS GATES TO THE SITE. GATES WILL BE A MINIMUM 20' WIDE DOUBLE SWING.
- ANY AND ALL HARDWARE/BRACING INSIDE LIFT STATION SHALL BE MANUFACTURED OF TYPE 316 STAINLESS STEEL.
- ALL VALVES AND CHECK VALVES SHALL BE INSTALLED ABOVE GROUND.
- CONTROL PANEL SHALL CONTAIN THE APPROPRIATE ELECTRICAL CONNECTION FOR THE INSTALLATION OF A SECONDARY EMERGENCY GENERATOR.

UTILITY CO.
ARIZONA PUBLIC SERVICE
190 WEST 14TH STREET
YUMA, ARIZONA 85364

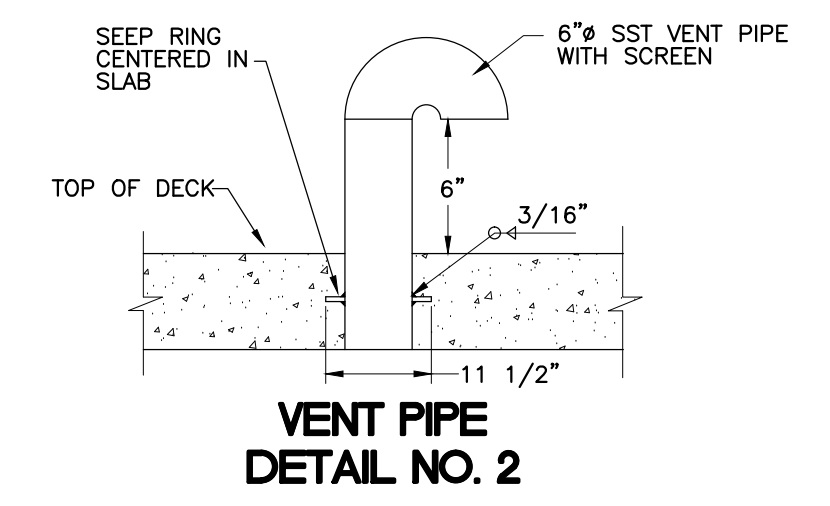
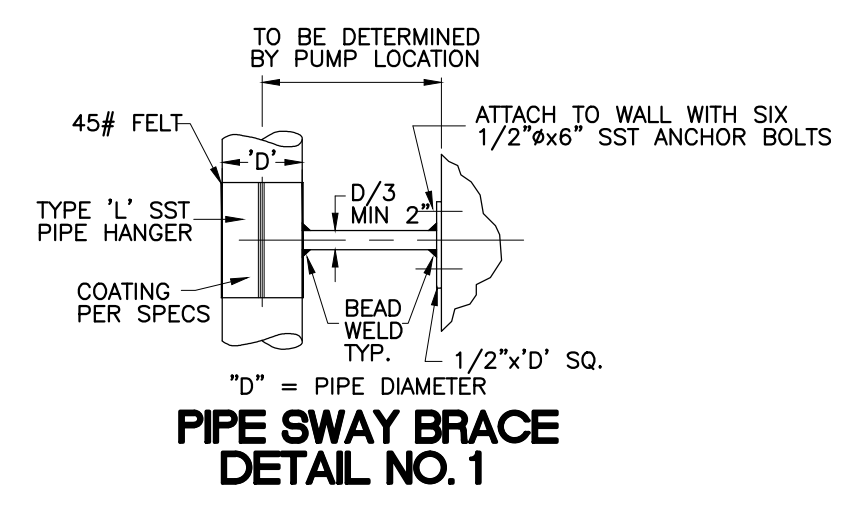
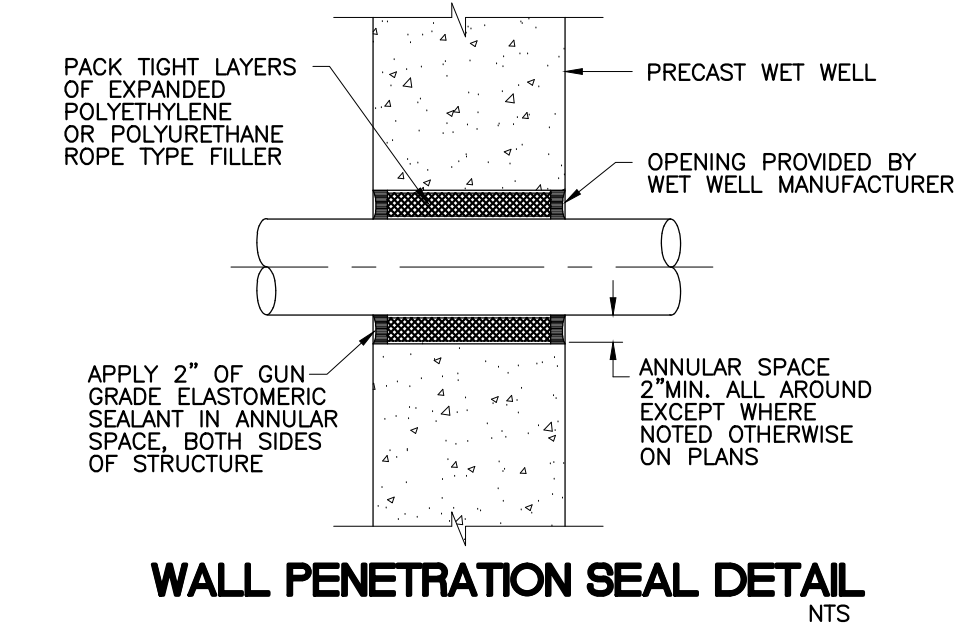
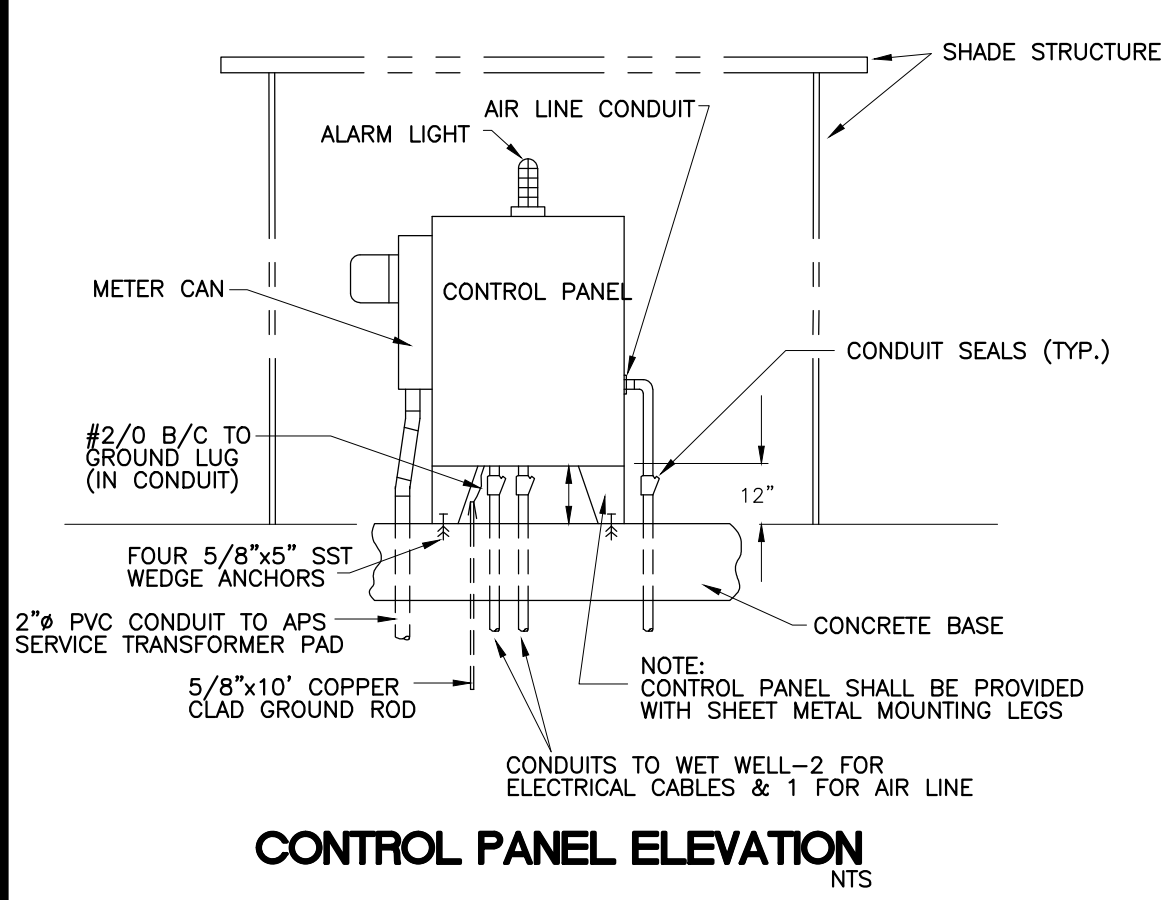


MATERIAL LIST FOR PUMP STATION

- NP 3127 SH3-249 FLYGT SUBMERSIBLE PUMP, 125 GPM, 11 H.P., 230 V, 3Ø, 60 HZ WITH MIX-FLUSH VALVE OR APPROVED EQUAL.
- ALUMINUM HATCH COVER 48"x36" CLEAR OPENING EMBEDDED IN CONCRETE COVER.
- LIFTING CABLE ATTACHMENT PER PUMP MANUFACTURER (SST).
- INTERMEDIATE GUIDE BAR PER PUMP MANUFACTURER (SST).
- PUMP ANCHOR BOLTS PER MANUFACTURER (SST).
- GUIDE BAR BRACKETS PER PUMP MANUFACTURER (SST).
- INLET PIPE.
- ELECTRIC CONDUITS - SIZE PER MANUFACTURER'S RECOMMENDATION.
- 6-INCH VENT PIPE PER DETAIL NO. 2(SST).
- U-SHAPED CABLE HANGER MADE FROM 1/2" SST PIPE (INCL. STRAPS).
- 6-INCH FLANGED SPOOL (DIP).
- 6-INCH FLANGED 90-DEGREE EL (DIP-LONG RADIUS).
- 6-INCH FLANGED 45-DEGREE BEND (DIP).
- 6-INCH COUPLING WITH HARNESS PER ANWA M-11 & FLGXP JOINTS.
- 6-INCH FLANGED CHECK VALVE WITH INDICATOR ARM.
- 6-INCH FLANGED GATE VALVE WITH OUTSIDE RISING STEM AND WHEEL.
- 6-INCH X 6-INCH FLANGED L.R. 90-DEGREE ELBOW (DIP).
- 6-INCH X 6-INCH X 6-INCH CROSS (DIP).
- 2-INCH DIAMETER AIR RELEASE VALVE (APCO MODEL 403 OR EQUAL).
- PIPE SUPPORT PER DETAIL NO. 3.
- 6-INCH 45-DEGREE ELBOW WITH THRUST BLOCK AND P.V.C. ADAPTOR.
- 120-INCH (INSIDE DIAMETER) RGRCP CLASS 4 STRUCTURE WITH BASE AND COVER (OR APPROVED EQUAL).
- PIPE SWAY BRACE PER DETAIL NO. 1.
- SANITARY SEWER LIFT STATIONS SHALL HAVE T-LOCK LINERS INSTALLED.
- BLIND FLANGE.

DESIGN ELEVATIONS

POINT NO.	ELEVATIONS
1	107.41
2	118.20
3	118.00
4	100.00
5	115.20



PIPE SUPPORT DETAIL NO. 3

REQUIRED	SUPPORTED	'A'	'B'	'C'	'D'	'E'
PIPE SIZE	PIPE SIZE	MIN.	MAX.	MIN.	MAX.	MIN.
6	6"	3"	5 7/8"	2.5"	11 3/4"	10 3/4"
					14 1/2"	

Nahef Edais
28844
NAJEH K. EDAIS
REGISTERED PROFESSIONAL ENGINEER
ARIZONA, U.S.A.
EXPIRES 3/31/17

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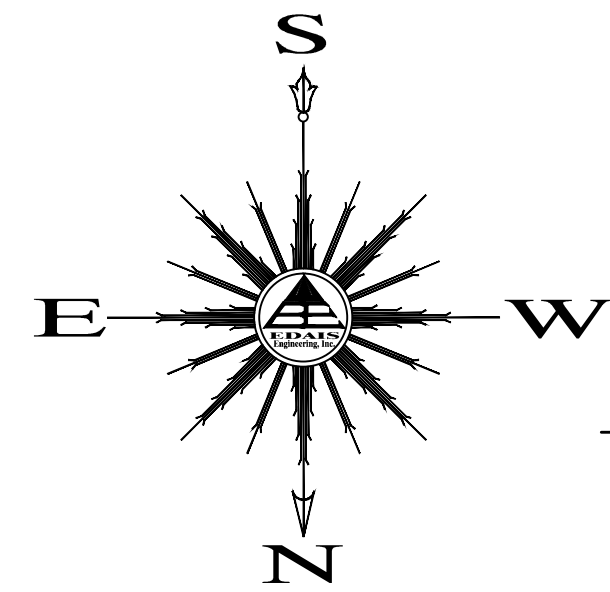
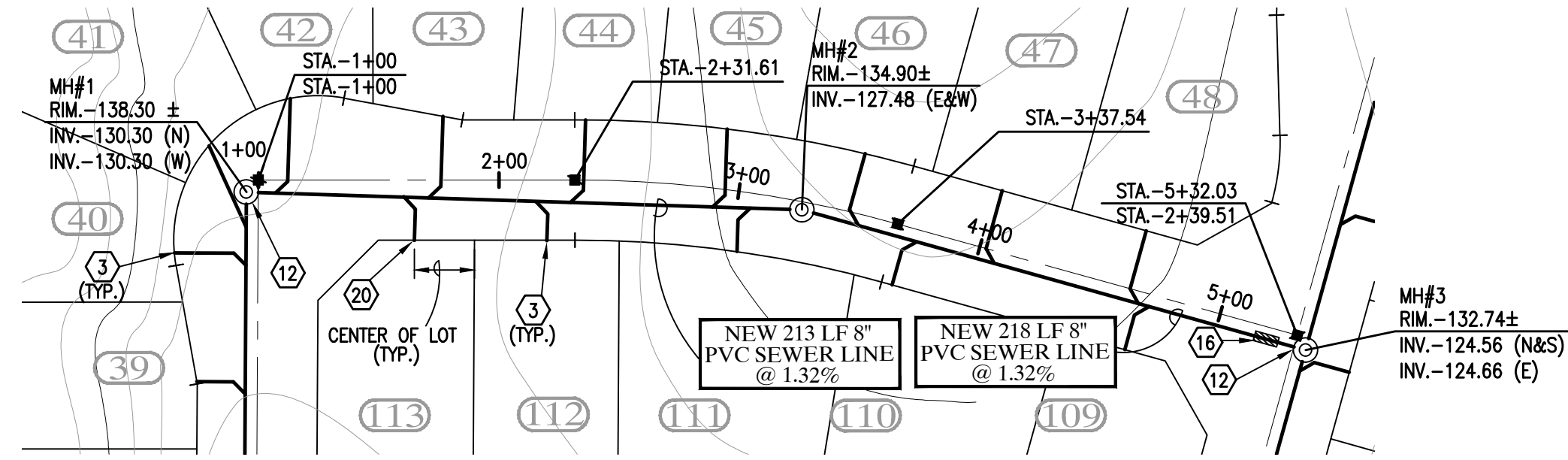
LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

LIFT STATION SITE PLAN & DETAILS

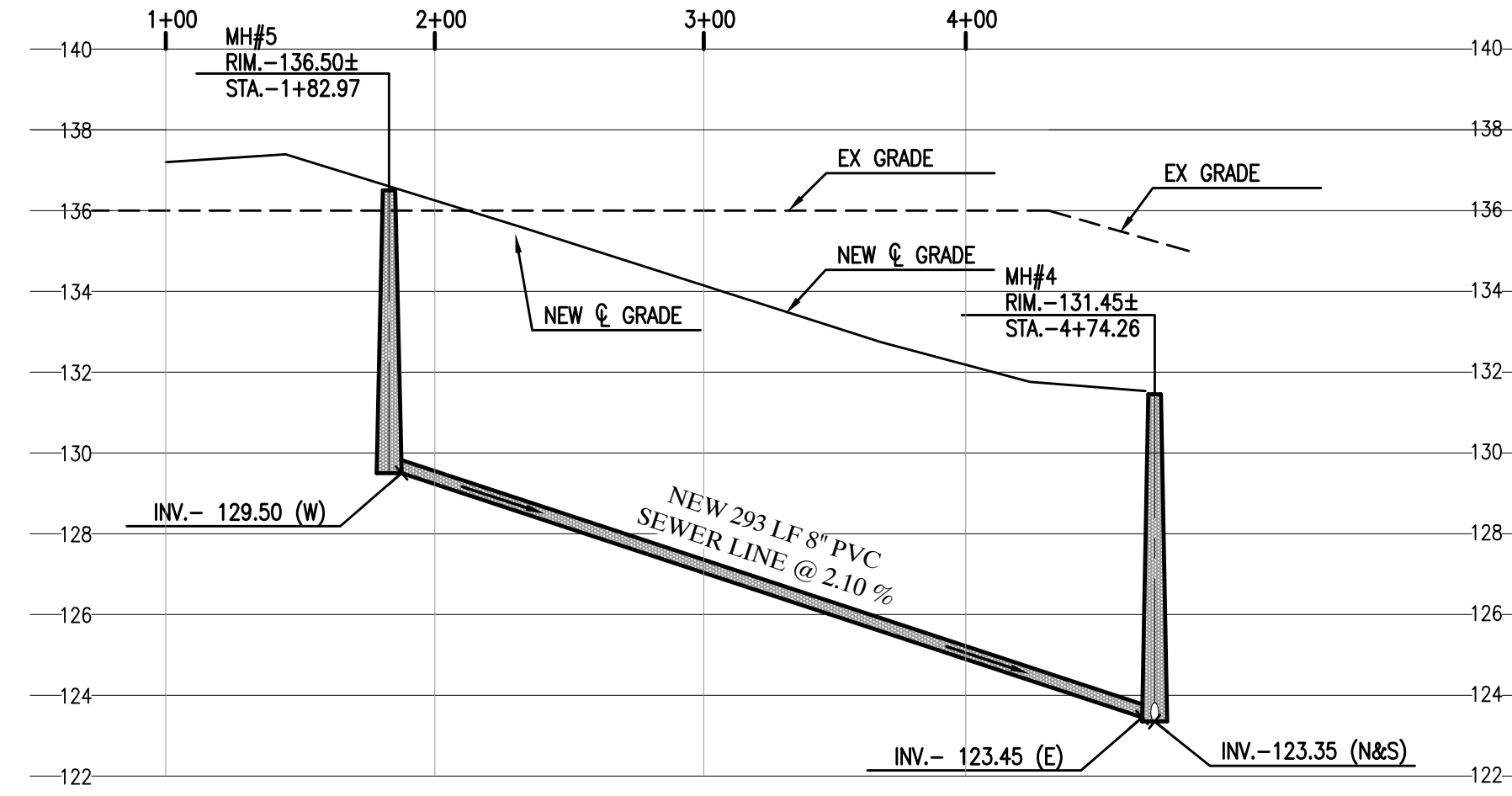
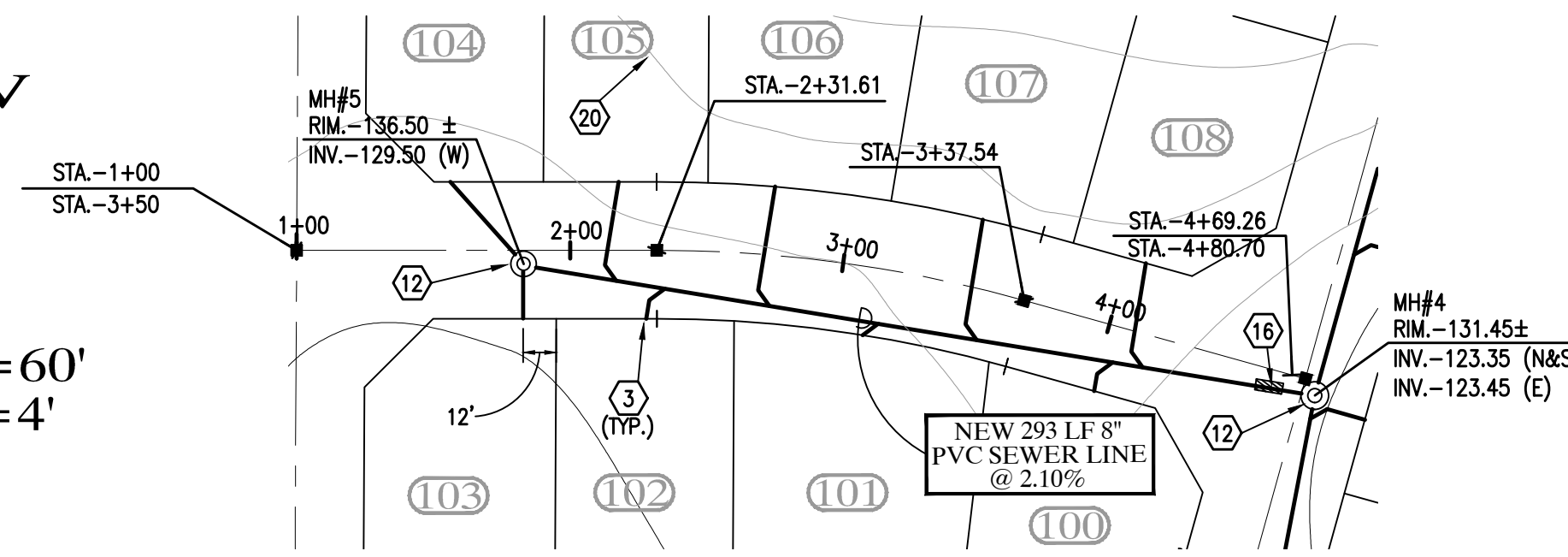
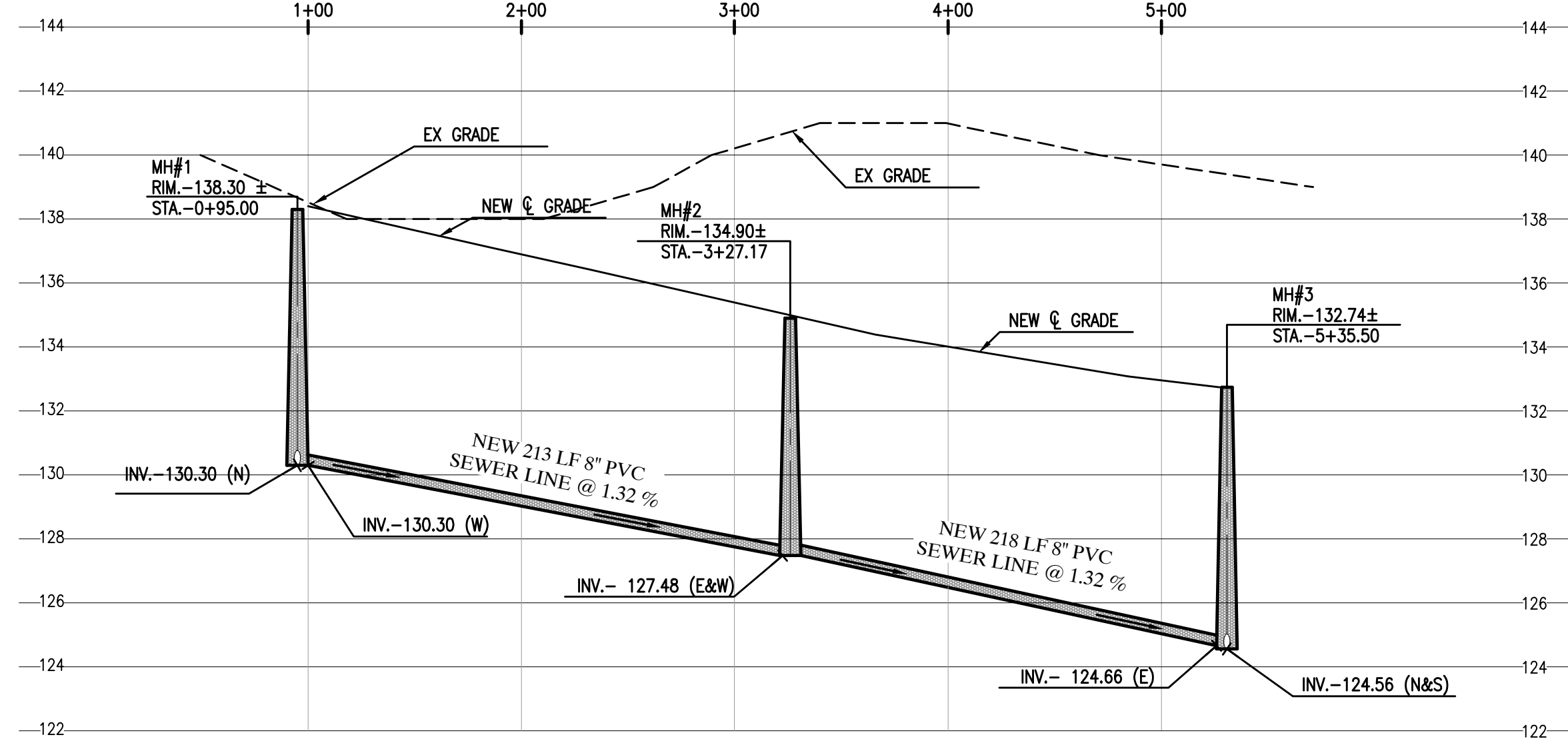
SCALE: AS SHOWN | DESIGNED BY: NKE | CHECKED BY: NKE
DATE: JUL 16 | DRAWN BY: STAFF | JOB No. 14-015

EDAIS Engineering, Inc.
3075 S. AVE. 4E | Yuma, Arizona 85365
(928) 344-3566 | FAX (928) 341-1075
EMAIL: najeh@edaigroup.com

SHEET 9C



SCALE HORIZ: 1"=60'
SCALE VERT: 1"=4'

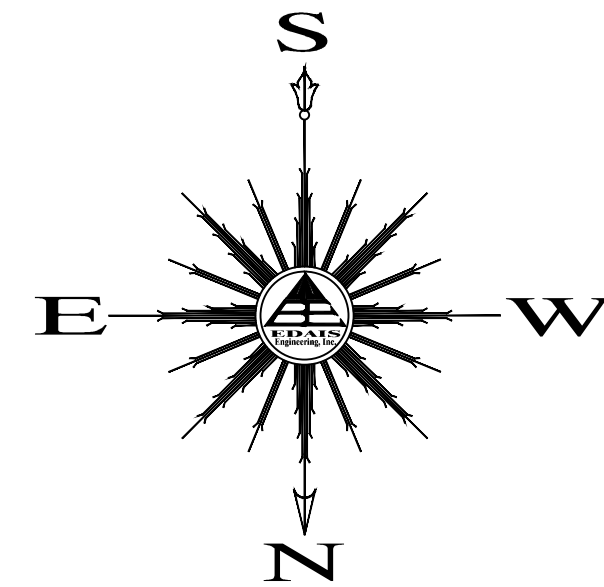
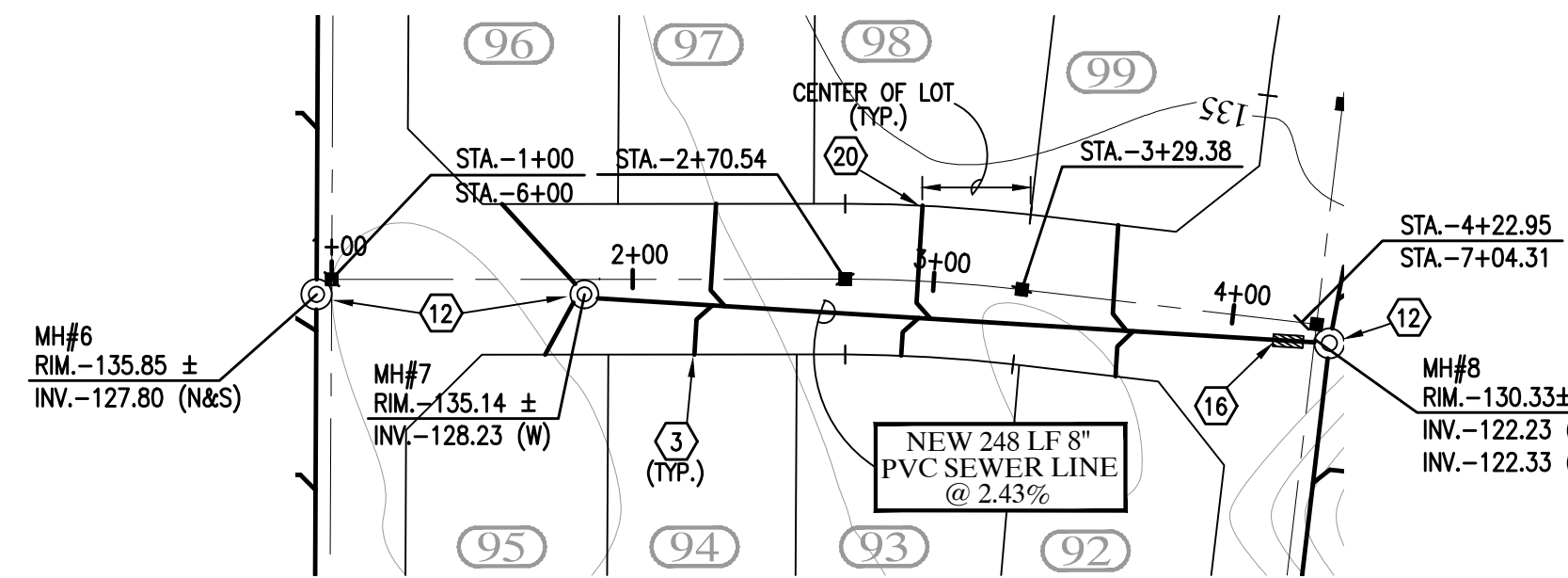


SEWER CONSTRUCTION KEYNOTES

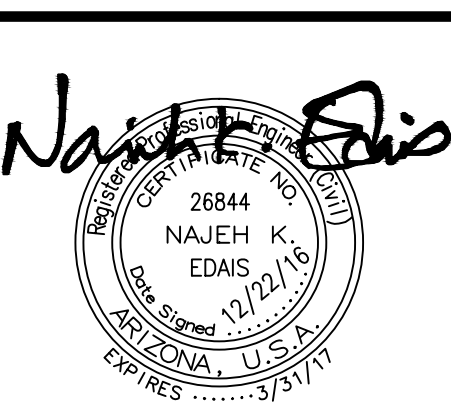
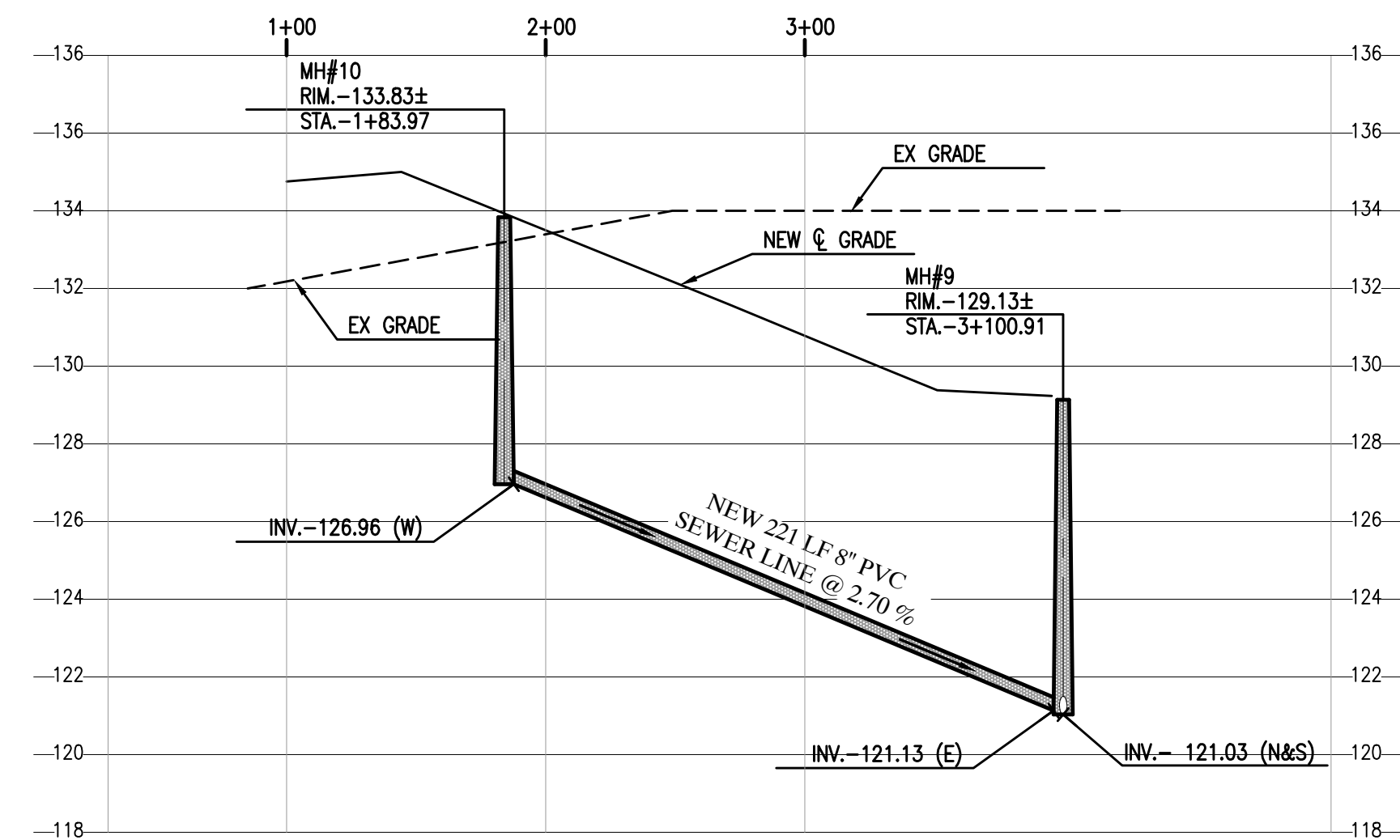
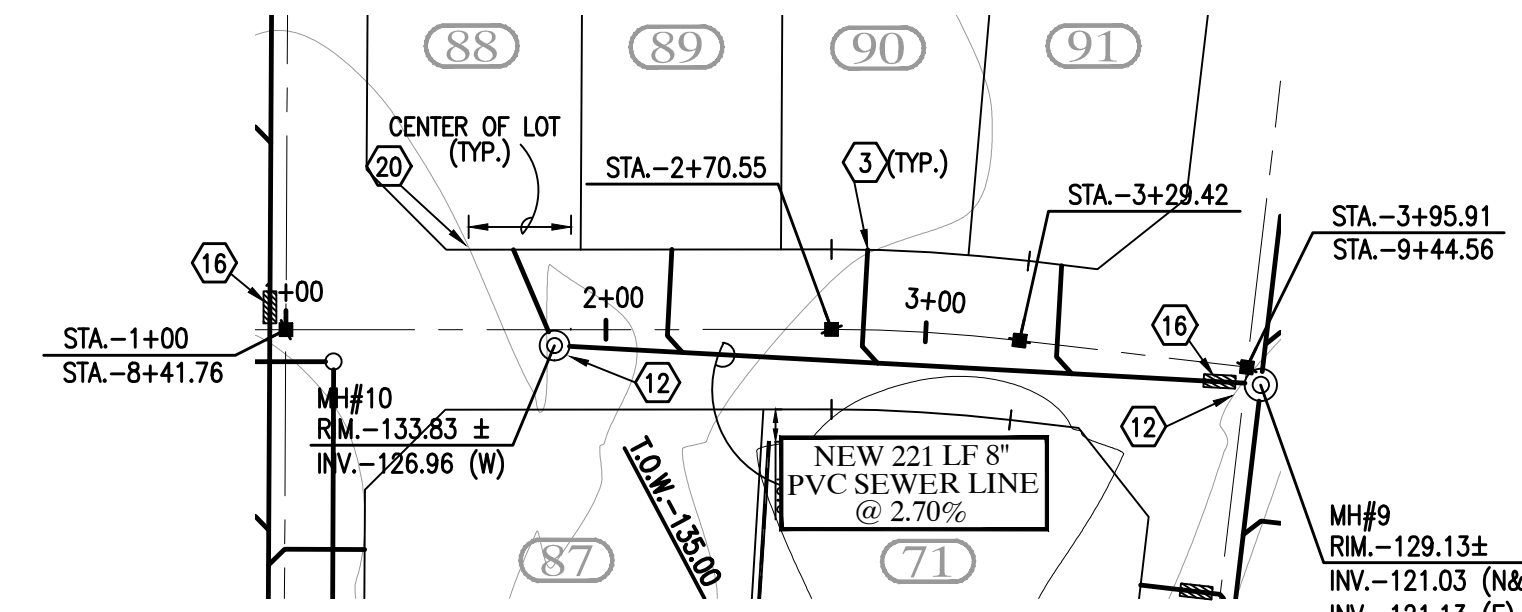
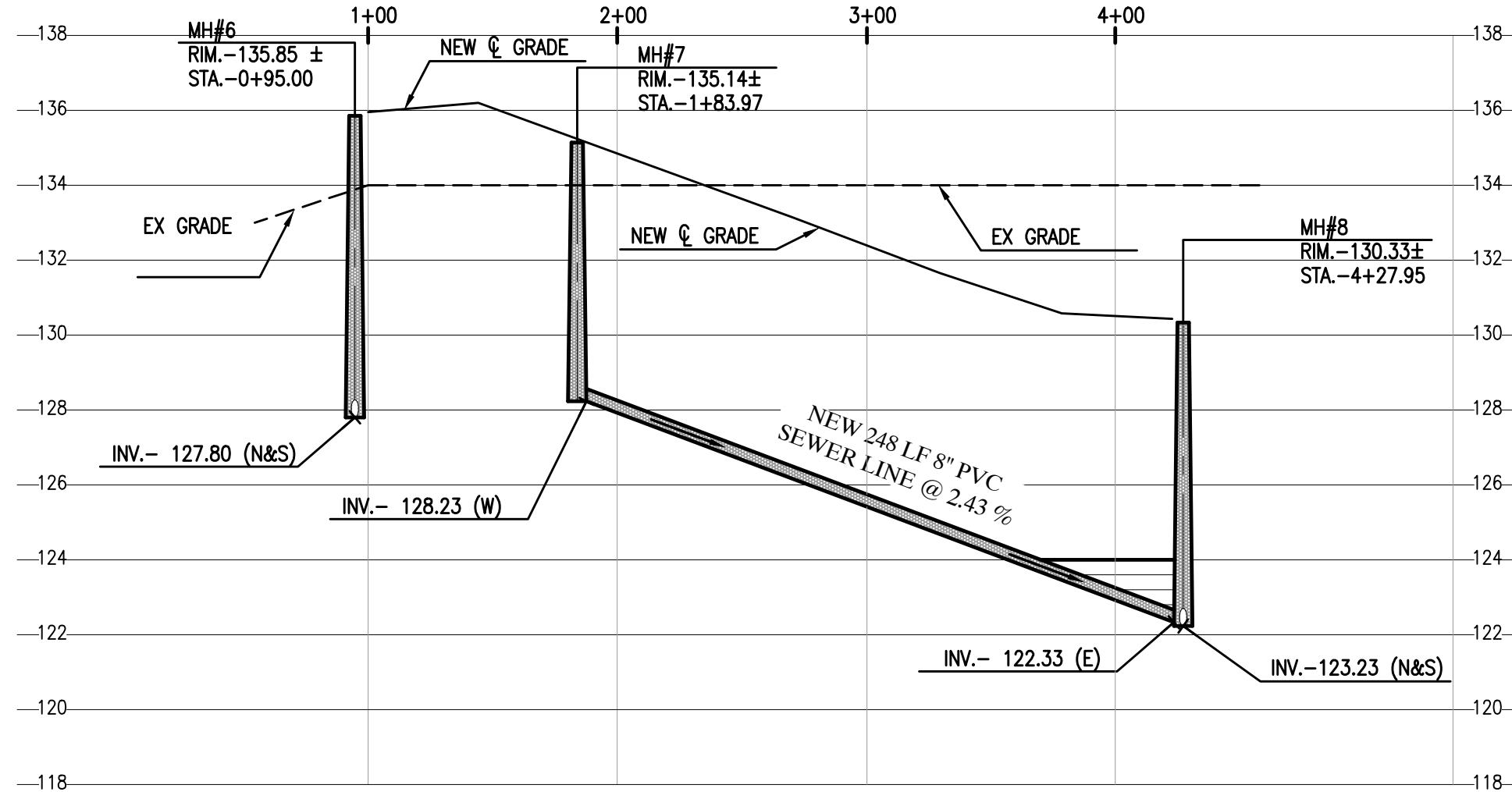
- ③ INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H14)
- ⑫ CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (J15)
- ⑬ CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M15)
- ⑯ INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T16)
- ⑰ CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE

LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- w- NEW PVC WATER MAIN
- s- NEW PVC SEWER LINE
- ②① NEW LOT NUMBER
- ①⑧⑧ FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH NEW MANHOLE
- RIM. NEW RIM ELEVATION
- INV. NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- ⊗ EXISTING WATER VALVE



SCALE HORIZ: 1"=60'
SCALE VERT: 1"=4'



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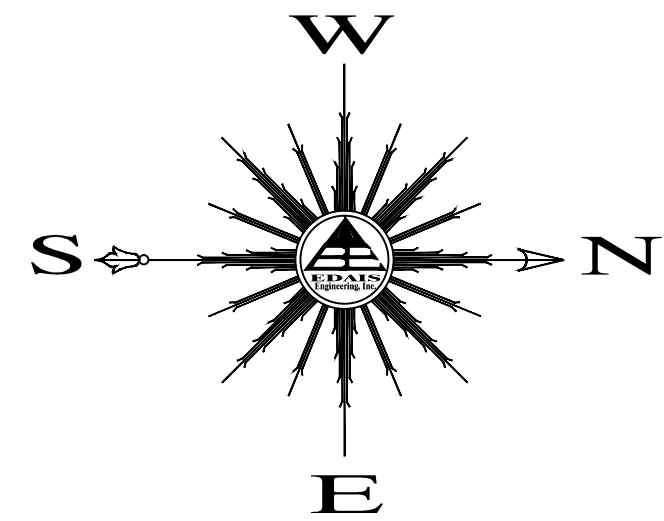
SEWER PLAN & PROFILES

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: DEC. 16	DRAWN BY: LPR	JOB No. 14-015

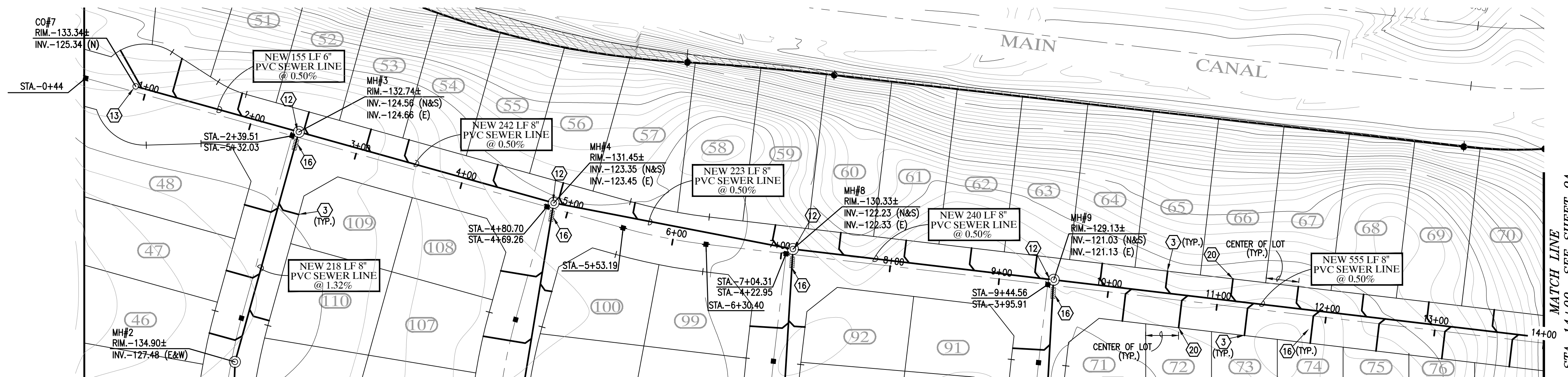
SHEET

Edais Engineering, Inc.
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(928) 344-3566 FAX (928) 341-1075
EMAIL: najeh@edaisgroup.com

10



SCALE HORIZ: 1"=60'
SCALE VERT: 1"=4'

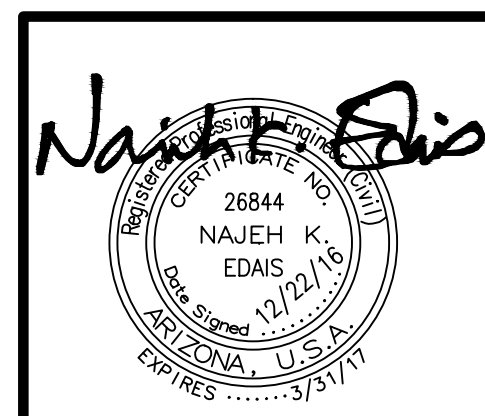
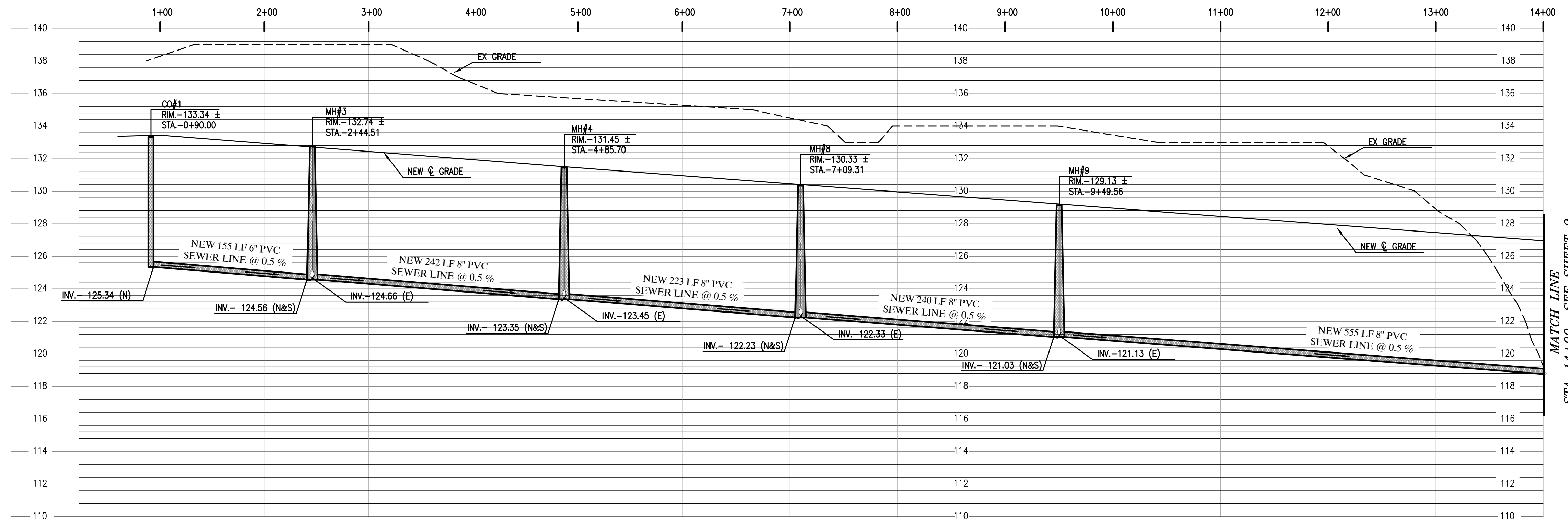


SEWER CONSTRUCTION KEYNOTES

- (3) INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (H 14)
- (12) CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (M 15)
- (13) CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M 15)
- (16) INSTALL 14" MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (T 16)
- (20) CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE

LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- W — NEW PVC WATER MAIN
- S — NEW PVC SEWER LINE
- NEW LOT NUMBER
- ① FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- NEW WATER VALVE
- NEW MANHOLE
- NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH — NEW MANHOLE
- RM — NEW RIM ELEVATION
- INV. — NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- EXISTING WATER VALVE



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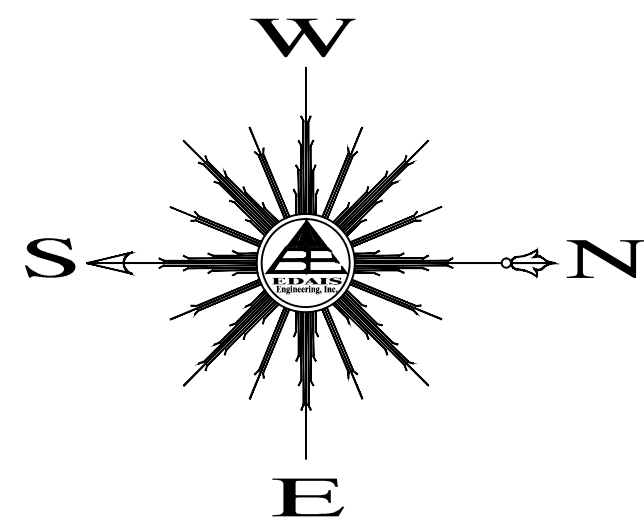
SEWER PLAN & PROFILES

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DATE: DEC. '16	DRAWN BY: LPR	JOB No. 14-015

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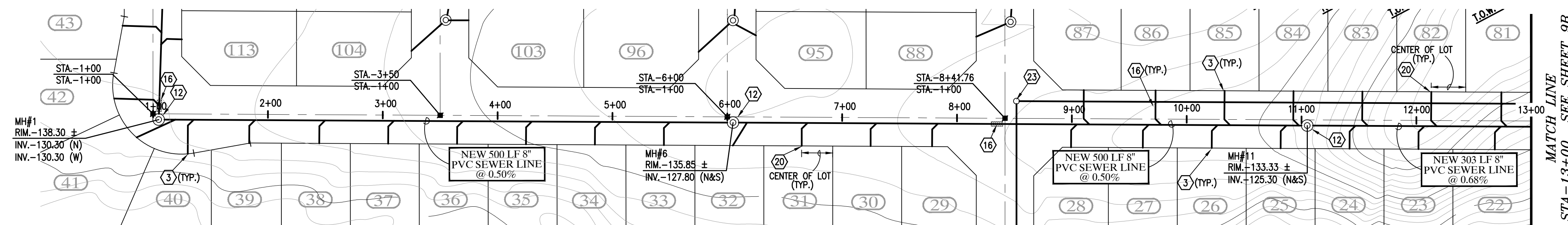
SHEET
11



SCALE HORIZ: 1"=60'
SCALE VERT: 1"=4'

SEWER CONSTRUCTION KEYNOTES

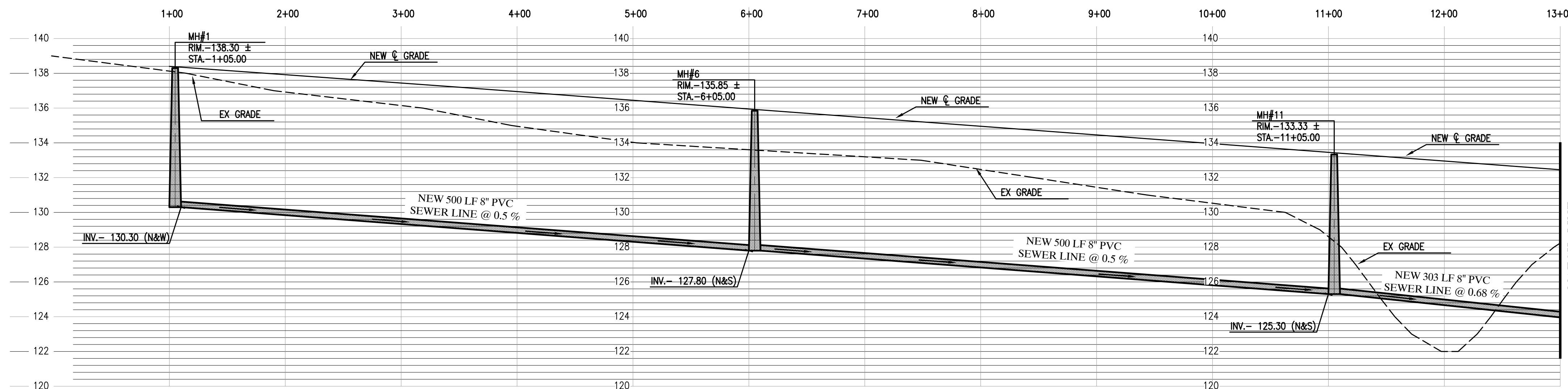
- ③ INSTALL 4" SEWER SERVICE (TYP.) - SEE DETAIL (11/14)
- ⑫ CONSTRUCT NEW SANITARY SEWER MANHOLE - SEE DETAILS (1/15)
- ⑬ CONSTRUCT NEW SANITARY SEWER CLEANOUT - SEE DETAIL (M/15)
- ⑯ INSTALL 14' MIN. DUCTILE IRON PIPE WITH MECHANICAL JOINTS AT EACH END - SEE DETAIL (1/16)
- ⑳ CONSTRUCT ALL SEWER SERVICES TO CENTER OF THE LOT UNLESS NOTED OTHERWISE
- ㉓ NEW FORCEMAIN PRESSURE CLEANOUT - SEE DETAIL (1/16)



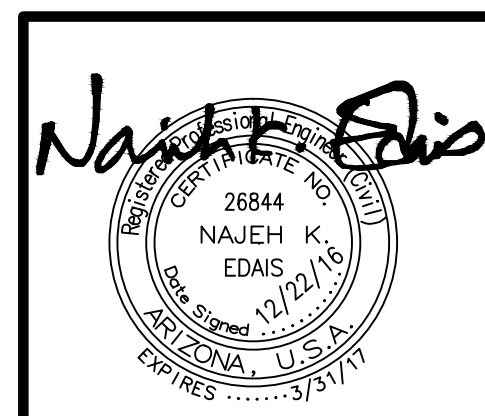
MATCH LINE
STA-13+00 SEE SHEET 9B

LEGEND

- CENTERLINE
- PROPERTY LINE
- BOUNDARY LINE
- w— NEW PVC WATER MAIN
- s— NEW PVC SEWER LINE
- NEW LOT NUMBER
- (155) FUTURE LOT NUMBER
- NEW SEWER SERVICE
- NEW SINGLE WATER SERVICE
- NEW DUAL WATER SERVICE
- NEW 2" BACKFLOW PREVENTOR
- NEW THRUST BLOCK
- ⊙ NEW WATER VALVE
- ⊙ NEW MANHOLE
- ⊙ NEW TEMPORARY BLOWOFF VALVE
- NEW FIRE HYDRANT
- MH NEW MANHOLE
- RIM. NEW RIM ELEVATION
- INV. NEW INVERT ELEVATION
- NEW STREET MONUMENT AS PER YUMA COUNTY STD. No. 4-080
- ⊗ EXISTING WATER VALVE



MATCH LINE
STA-13+00 SEE SHEET 9A



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SUBDIVISION**

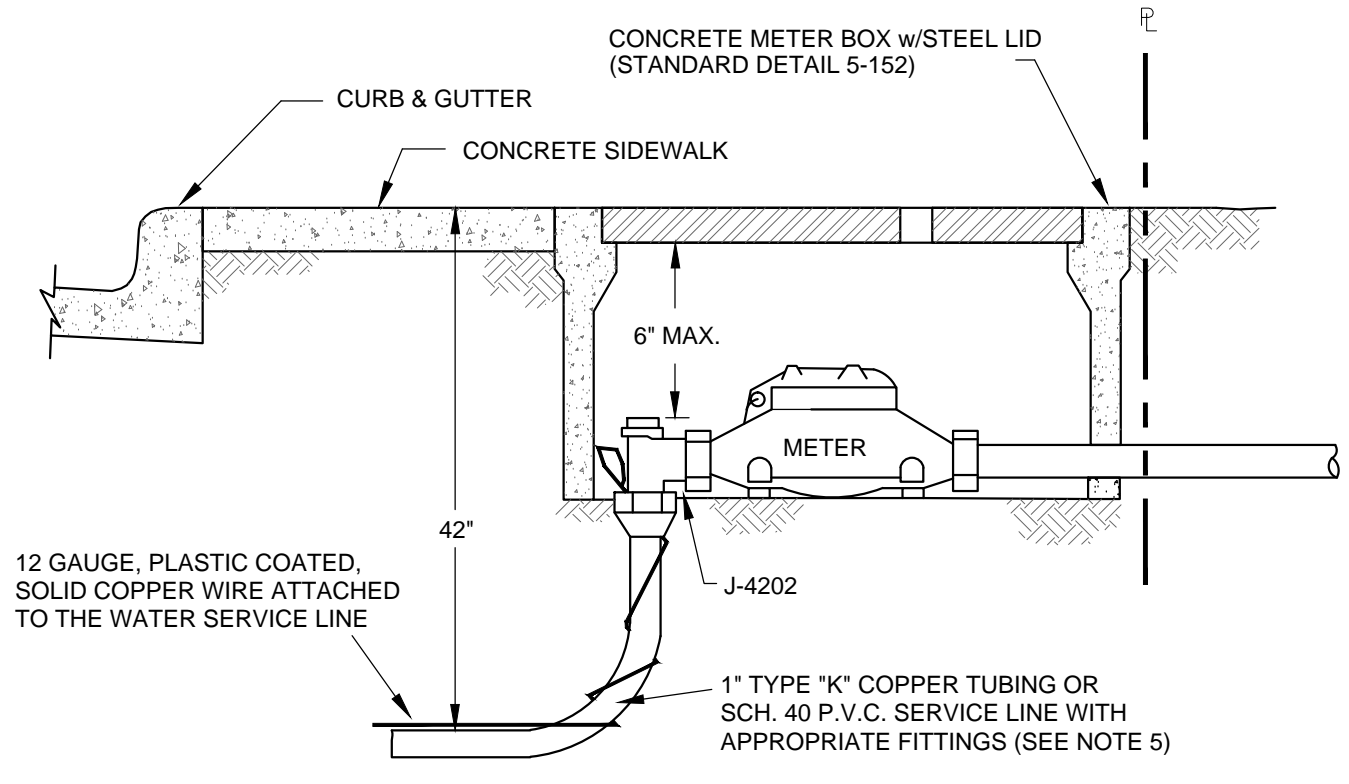
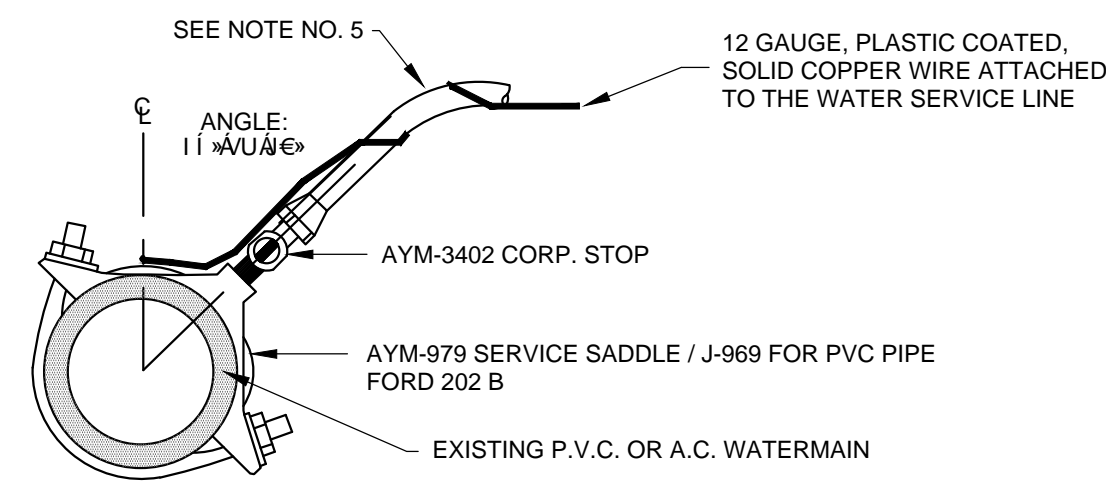
SEWER PLAN & PROFILES

SCALE: AS SHOWN	DESIGNED BY: NKE	CHECKED BY: NKE
DATE: DEC. '16	DRAWN BY: LPR	JOB No. 14-015

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Yuma, Arizona 85365
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12



NOTE

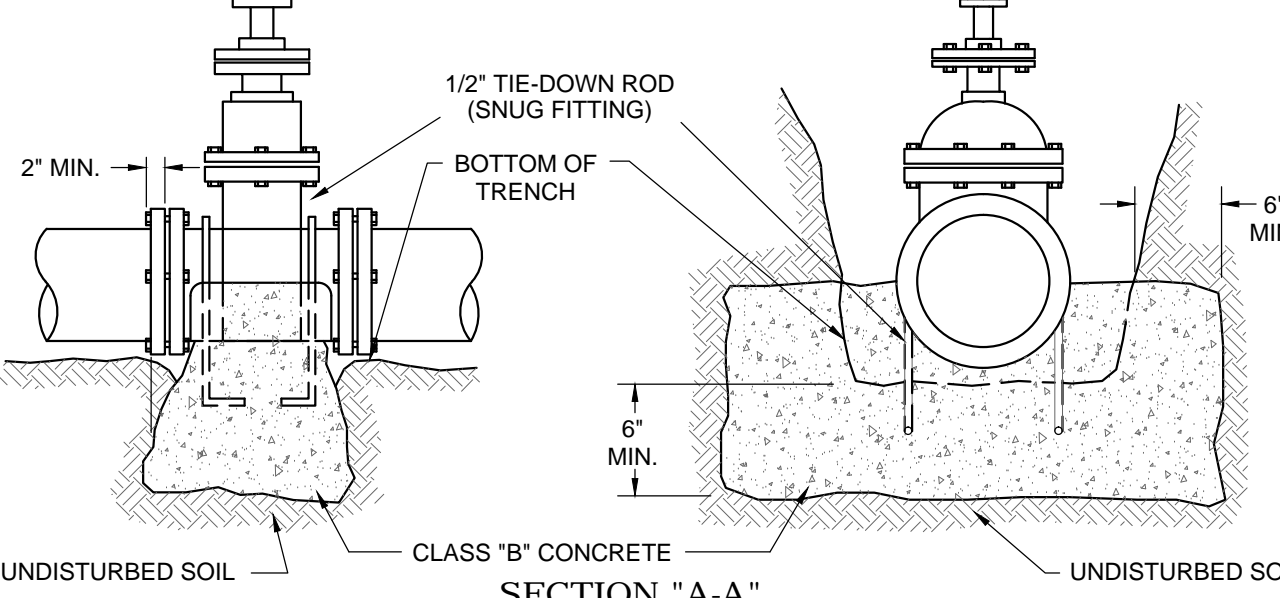
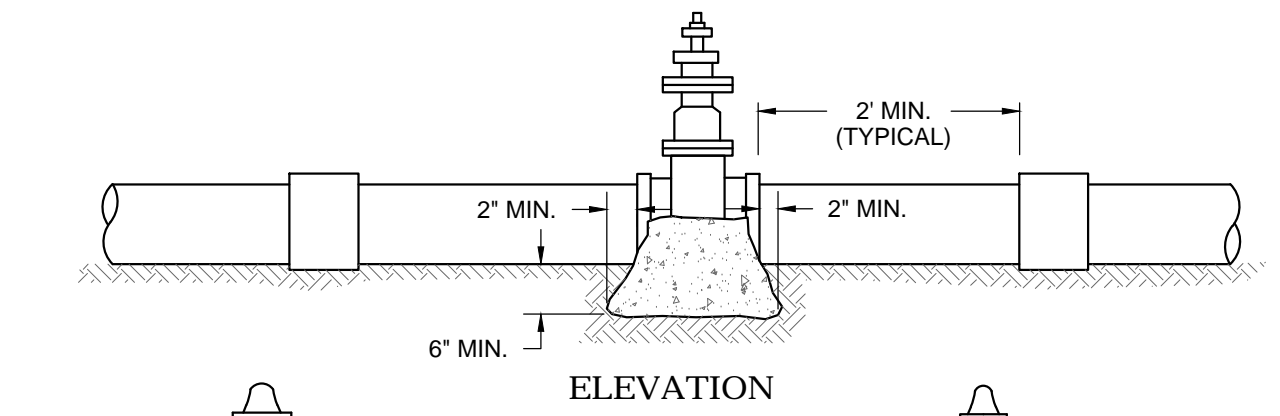
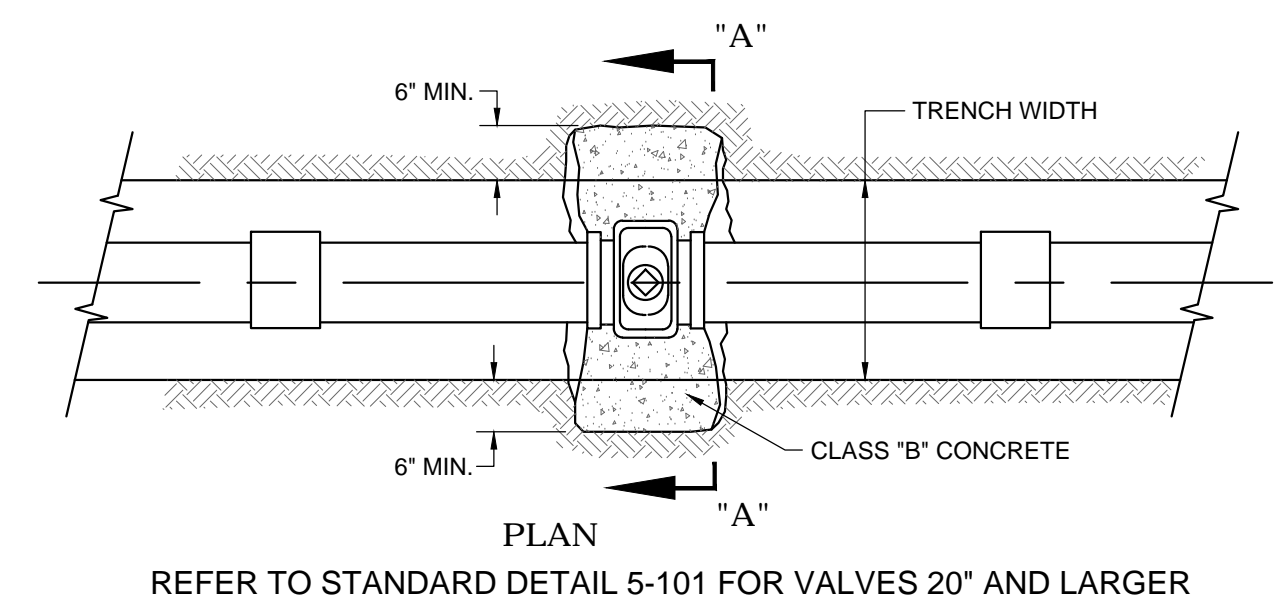
- Tracer wire shall be required on all service lines between watermain and meter.
- Meter box to be set adjacent to the public right-of-way line.
- Water meter boxes that are subject to vehicular traffic must include a traffic rated cast iron lid.
- Meter boxes are not to be located inside sidewalks.
- When using 1" water service line only one 1" meter can be used or 2-5/8" or 3/4" meters per service line.
- Two 1" water meters on a 1" water service is not allowed to prevent low water pressure/reduced capacity.
- All new water service requests 2" and smaller off of an existing water main will be installed by City of Yuma utilities personnel.

**WATER METER INSTALLATION
1" AND SMALLER**

C.O.Y. STD. NO. 5-149 NTS **A** 14

NOTES:

- SEWER CONSTRUCTION STAKING SHALL BE DONE UNDER THE SUPERVISION OF A REGISTERED ENGINEER OR SURVEYOR.
- CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF SITE AND SOIL CONDITION AND SHALL NOTIFY ALL UTILITY AGENCIES PRIOR TO EXCAVATION.
- CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY OF ANY CONDITIONS REQUIRING CHANGE TO THE PLANS.
- CONTRACTOR SHALL NOTIFY FARWEST WATER & SEWER, INC. PRIOR TO START OF CONSTRUCTION.
- STANDARD SPECIFICATIONS AND ARIZONA STATE HEALTH DEPARTMENT BUL. NO. 11 SHALL APPLY TO THIS PROJECT.
- A MINIMUM OF 7" SHALL BE MAINTAINED BETWEEN PARALLEL WATER AND SEWER LINES AND WATER AND SEWER MAINS.
- SEWER MAINS AND SERVICES SHALL BE CONSTRUCTED OF C909 PVC PIPE FOR A DISTANCE OF 7' IN BOTH DIRECTIONS FROM A WATERMAIN OR SERVICE WHEN,
 - SEWER MAIN OR SERVICE CROSSES LESS THEN 2' BELOW A WATER MAIN
 - WATER MAIN OR SERVICE CROSSES BELOW A SEWER MAIN OR SERVICE (A MINIMUM OF 24" SEPARATION SHALL BE MAINTAINED VERTICALLY BETWEEN WATER AND SEWER MAINS AND SERVICES).
- NO STREET, WATER AND SEWER IMPROVEMENTS WILL BE ACCEPTED BY FARWEST WATER & SEWER, INC. FOR MAINTENANCE UNTIL "AS BUILT" CERTIFIED PLANS ARE FILED WITH AND ACCEPTED BY FARWEST WATER & SEWER, INC.
- SEWER PIPE SHALL BE PVC, HAVE N.S.F. SEAL OF APPROVAL, AND MEET ASTM D-3034, SDR 35.
- SEWER MAINS SHALL BE PRESSURE AND LEAKAGE TESTED WITH 4 FEET OF HEAD UPSTREAM. ALLOWABLE LEAKAGE NOT TO EXCEED 200 GAL./IN. DIA./MILE OF PIPE/DAY.
- EXFILTRATION FROM MANHOLES SHALL BE LIMITED TO 0.1 GALS./HR./VERTICAL FOOT.
- DEFLECTION TEST OF AT LEAST 20% OF PLASTIC SEWER PIPE SHALL BE PERFORMED. SHORT TERM DEFLECTION IN EXCESS OF 5% SHALL BE CONSIDERED UNSERVICEABLE AND SHALL BE REPAIRED AND RETESTED.
- IN AREAS WHERE THE GROUNDWATER IS AT PIPE SPRING LINE OR ABOVE INFILTRATION TESTS SHALL BE PERFORMED. ALLOWABLE INFILTRATION FOR SEWER MAINS NOT TO EXCEED 200 GAL./IN. DIA./MILE OF PIPE/DAY. ALLOWABLE INFILTRATION FOR MANHOLES SHALL BE LIMITED TO 0.1 GALS./HR./VERTICAL FOOT.

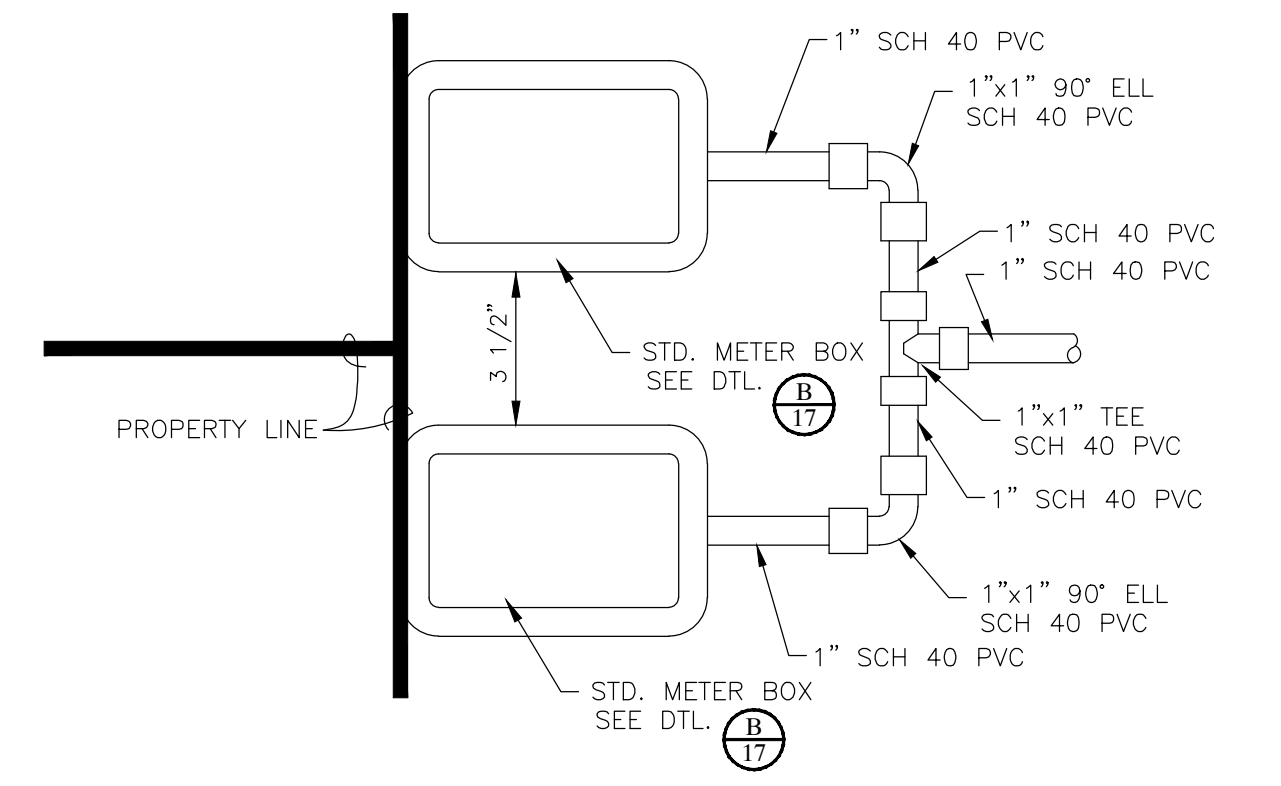


NOTES

- This detail covers water valves 4" or larger.
- All buried iron and ferrous fittings shall receive a 10mil (minimum) polyethylene plastic wrap to prevent direct contact with soil.
- Tie-down rods required for pipes larger than 8".
- Concrete shall not come into contact with water pipe.
- Refer to Standard Detail 5-101 for valves twenty inch (20") and larger.

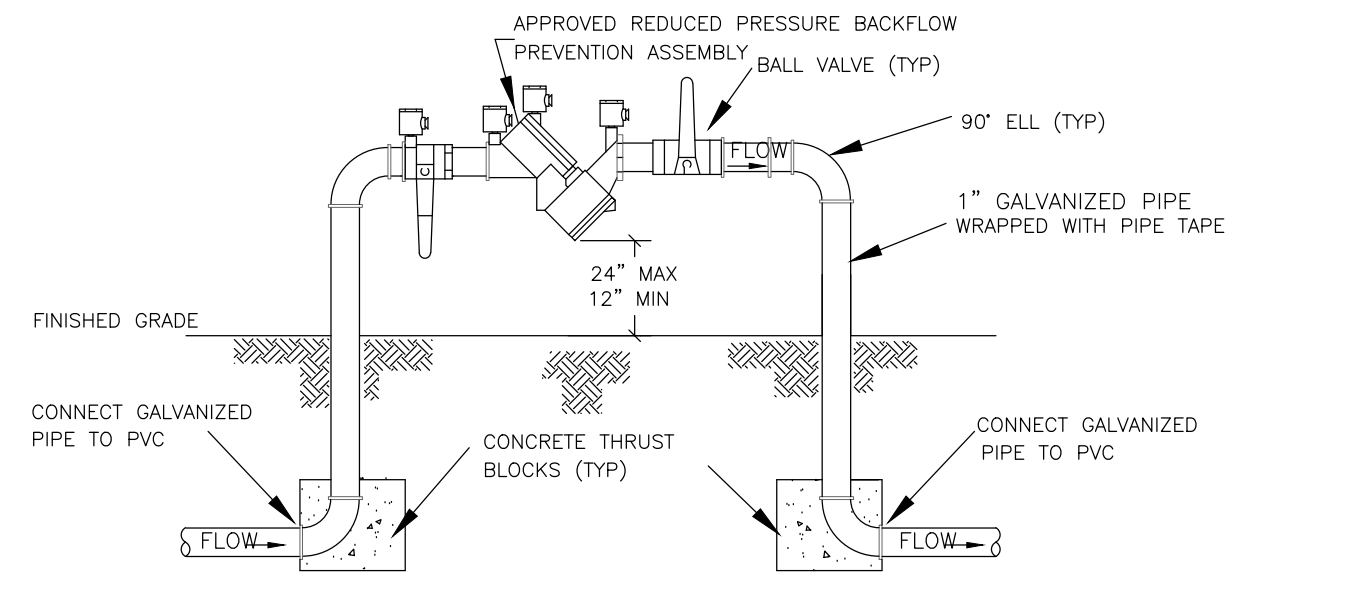
VALVE ANCHORS

C.O.Y. STD. NO. 5-110 NTS **D** 14



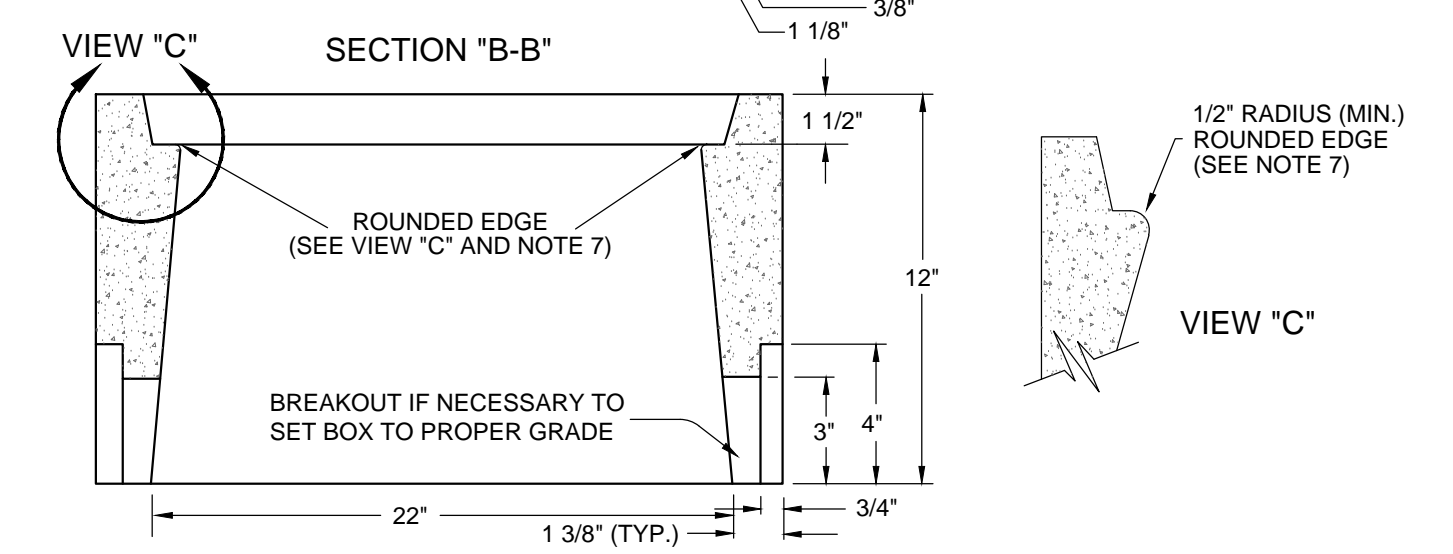
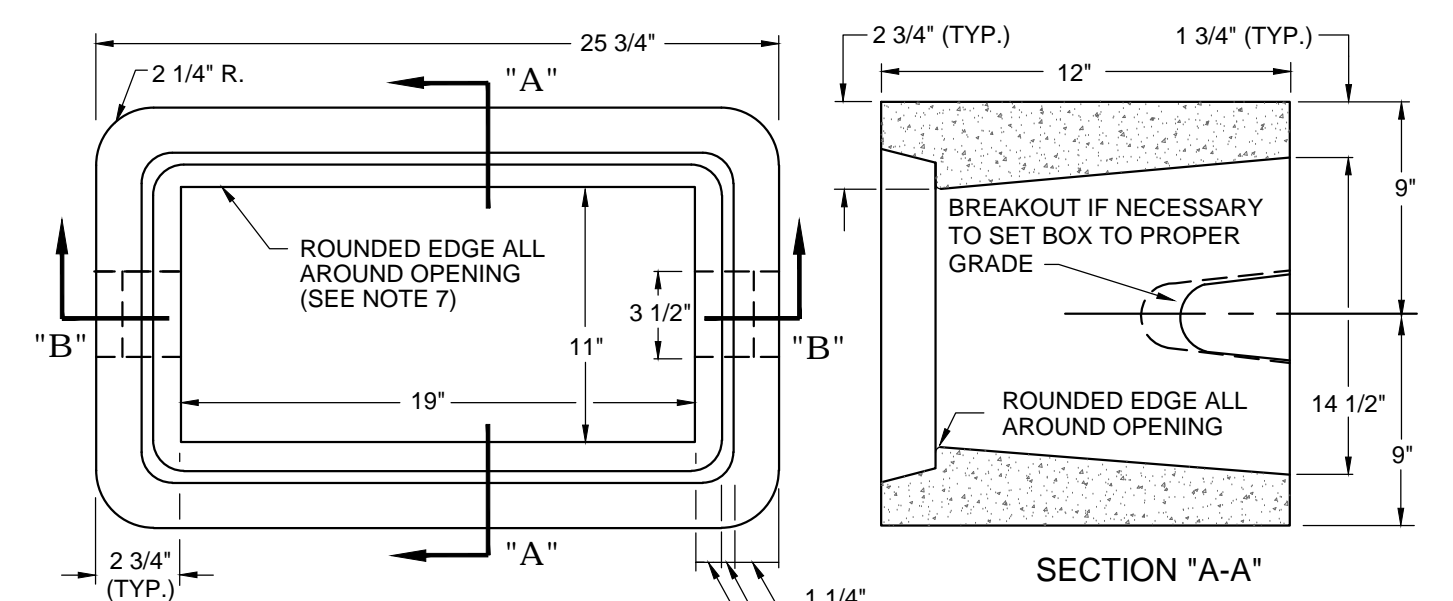
**TYPICAL DUAL MANIFOLD
STUB SERVICE**

NTS **F** 14



**REDUCED PRESSURE
BACKFLOW ASSEMBLY**

NTS **G** 14

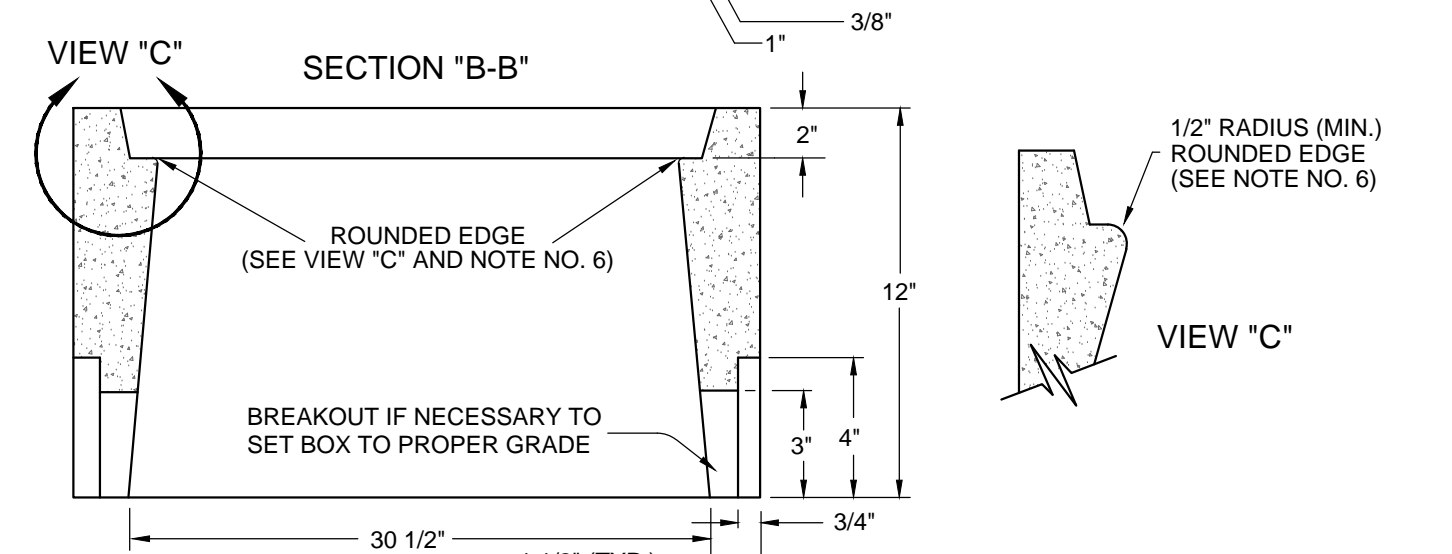
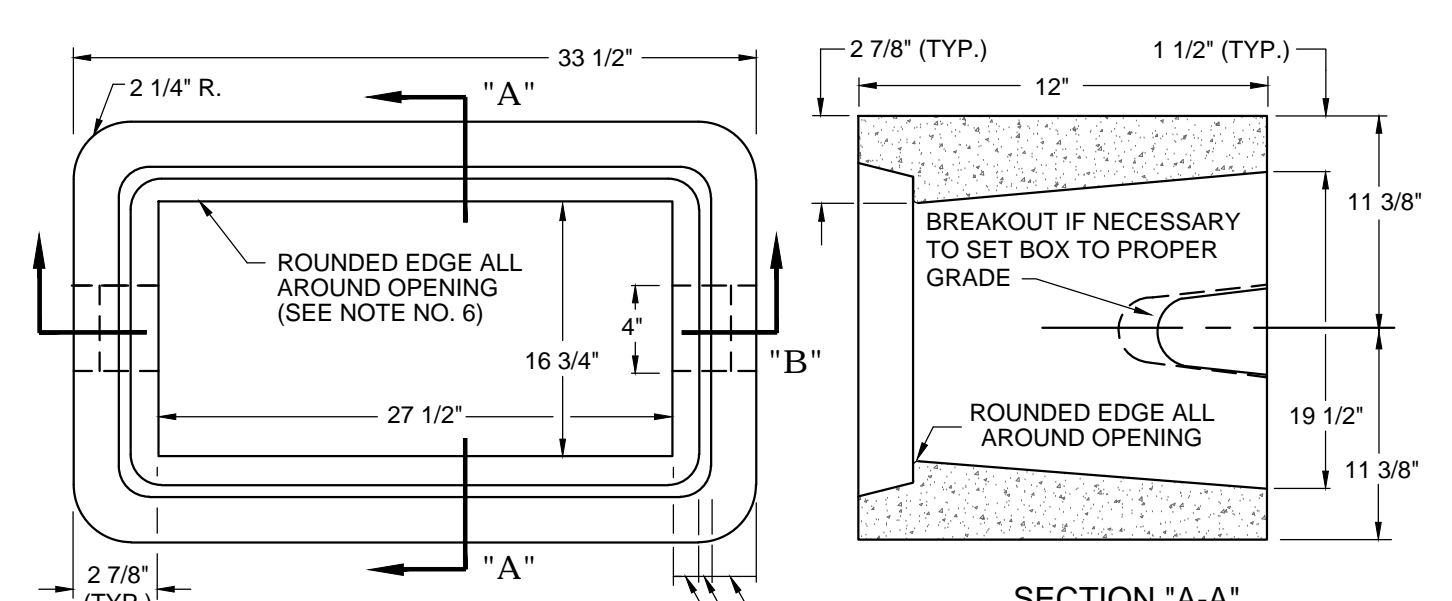


NOTES

- The meter boxes shall conform to the dimensions of the above drawing and shall be made of Portland cement concrete poured and tamped (or vibrated) in true form.
- The Portland cement concrete shall be batched in the proper proportions by weight, water, cement, fine aggregate (A.S.T.M. C-33), and coarse aggregate (3/8" rock). This mix shall be designed to obtain a minimum of 4,000psi at 28 days when tested in accordance with A.S.T.M. C-39. This mix shall be poured at a slump not in excess of six inches (6").
- Upon the removal of the forms, the meter boxes shall be water cured for seven (7) days or sprayed with a membrane curing compound such as "Hunts Process" or approved equal.
- The method of sampling and testing of these boxes shall conform to A.S.T.M. C-129 and C-140, except that the minimum required strength shall be 4,000psi at 28 days.
- Meter box lids shall be cast iron and fit flush with top of box and have adequate bearing on seat. When water meter boxes are used in paved areas, subject to vehicular traffic, a traffic rated lid will be used. The lids are to be precut with 1.75" to 2" diameter holes to install automatic meter reading devices.
- The San Diego Precast Concrete, Inc. model P 4 1/2 water meter box with cast iron lid or equal is an approved model.
- Apply 1/2" radius (minimum) to edges of box opening in order to prevent worker injury when handling and installing boxes.
- Use composite meter boxes in residential subdivisions/mobile home parks. The lids are to be precut with 1.75" to 2" diameter holes to install automatic meter reading devices.
- Meter boxes should not be installed in sidewalk unless directed by City Engineer.

**CONCRETE WATER METER BOX
FOR 1" METERS & SMALLER**

C.O.Y. NO. 5-152 NTS **B** 14

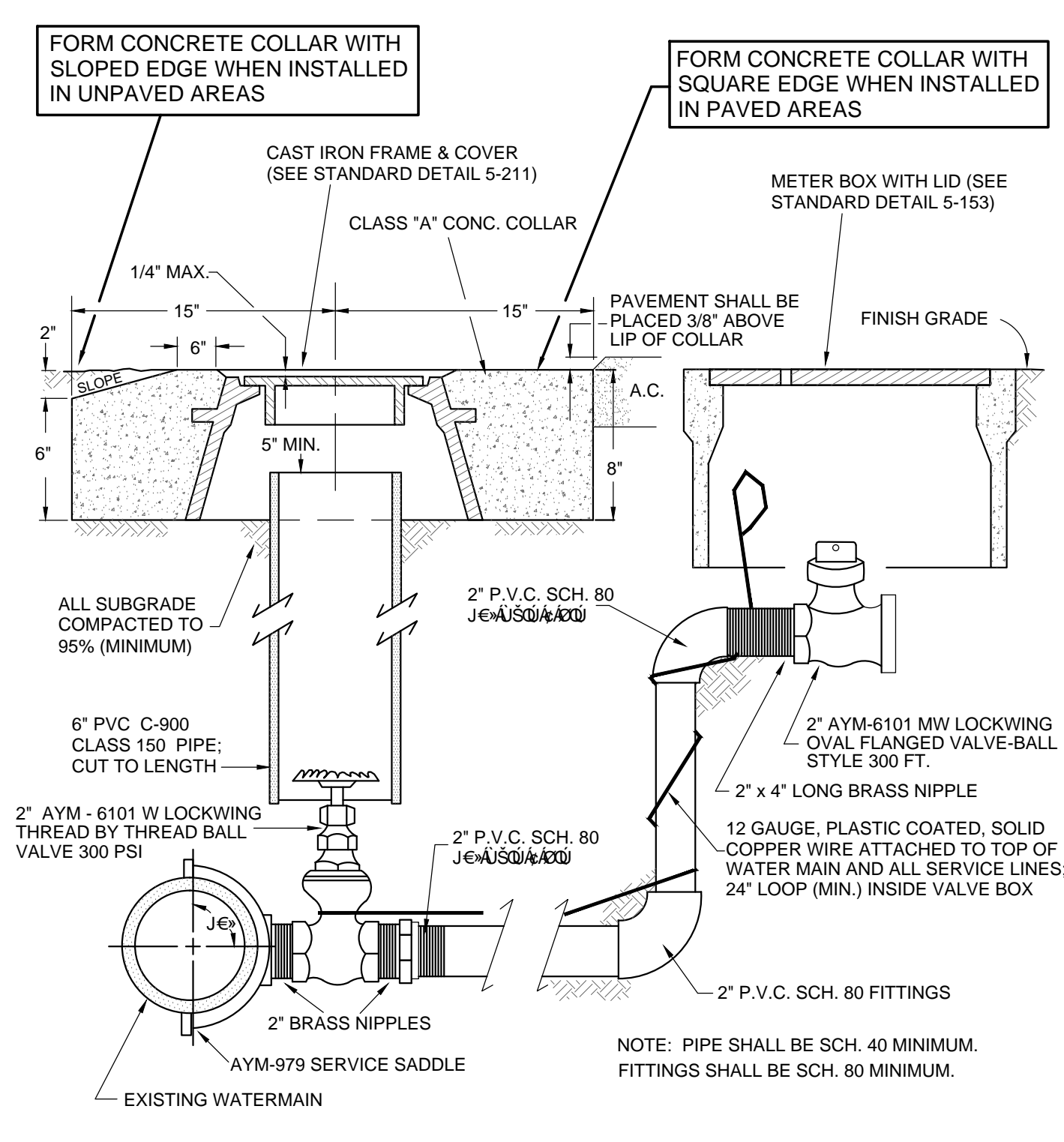


NOTES

- The meter boxes shall conform to the dimensions of the above drawing and shall be made of Portland cement concrete poured and tamped (or vibrated) in true form.
- The Portland cement concrete shall be batched in the proper proportions by weight, water, cement, fine aggregate (A.S.T.M. C-33), and coarse aggregate (3/8" rock). This mix shall be designed to obtain a minimum of 4,000psi at 28 days when tested in accordance with A.S.T.M. C-39. This mix shall be poured at a slump not in excess of six inches (6").
- Upon the removal of the forms, the meter boxes shall be water cured for seven (7) days or sprayed with a membrane curing compound such as "Hunts Process" or approved equal.
- The method of sampling and testing of these boxes shall conform to A.S.T.M. C-129 and C-140, except that the minimum required strength shall be 4,000psi at 28 days.
- Meter box lids shall be cast iron and fit flush with top of box and have adequate bearing on seat. When water meter boxes are used in paved areas, subject to vehicular traffic, a traffic rated lid will be used.
- The San Diego Precast Concrete, Inc. model P 4 1/2 water meter box with cast iron lid or equal is an approved model.
- Apply 1/2" radius (minimum) to edges of box opening in order to prevent worker injury when handling and installing boxes.
- Use composite meter boxes in residential subdivisions/mobile home parks. The lids are to be precut with 1.75" to 2" diameter holes to install automatic meter reading devices.
- Meter boxes should not be installed in sidewalk unless directed by City Engineer.

**CONCRETE WATER METER BOX
1 1/2" & 2" METERS AND
3" TURBINE METERS**

C.O.Y. NO. 5-153 NTS **C** 14

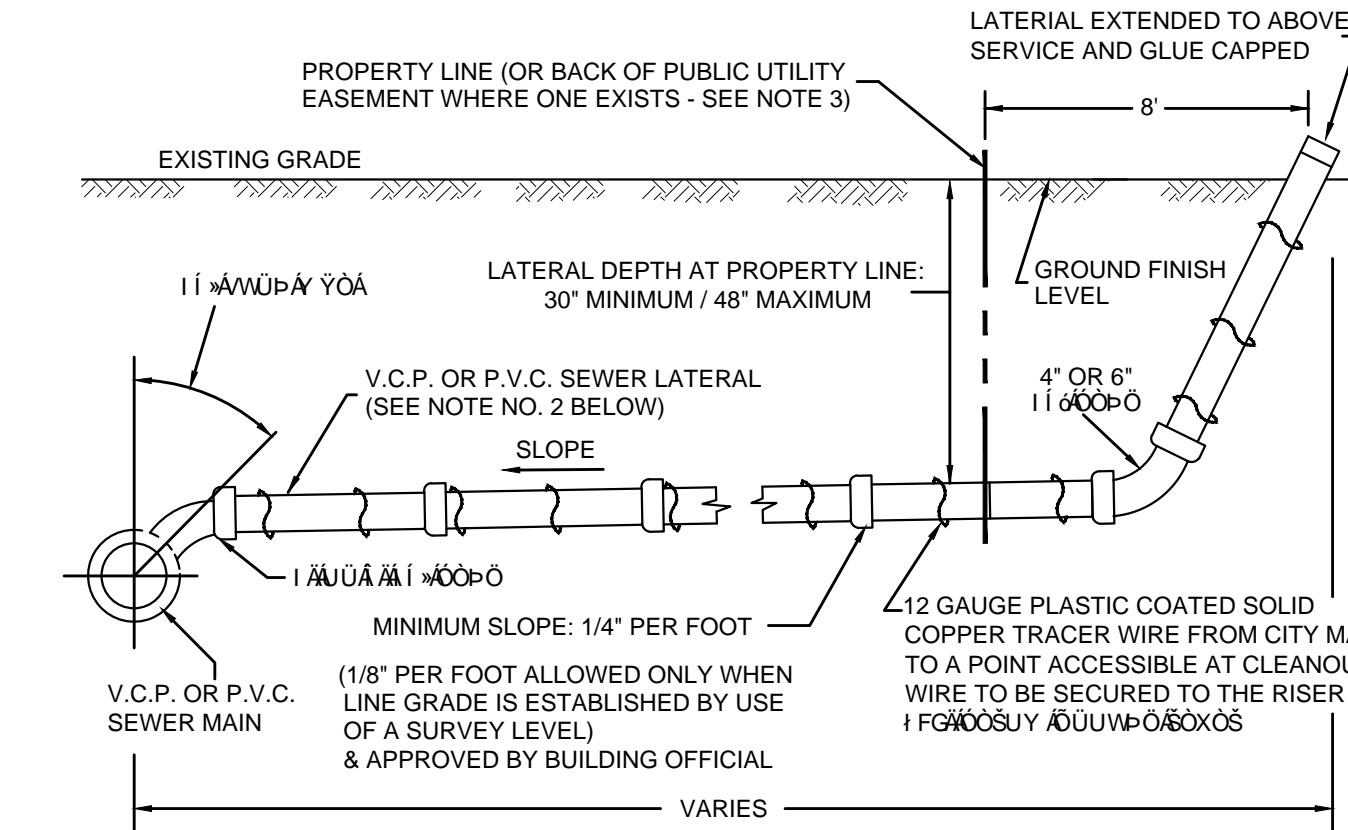


NOTE

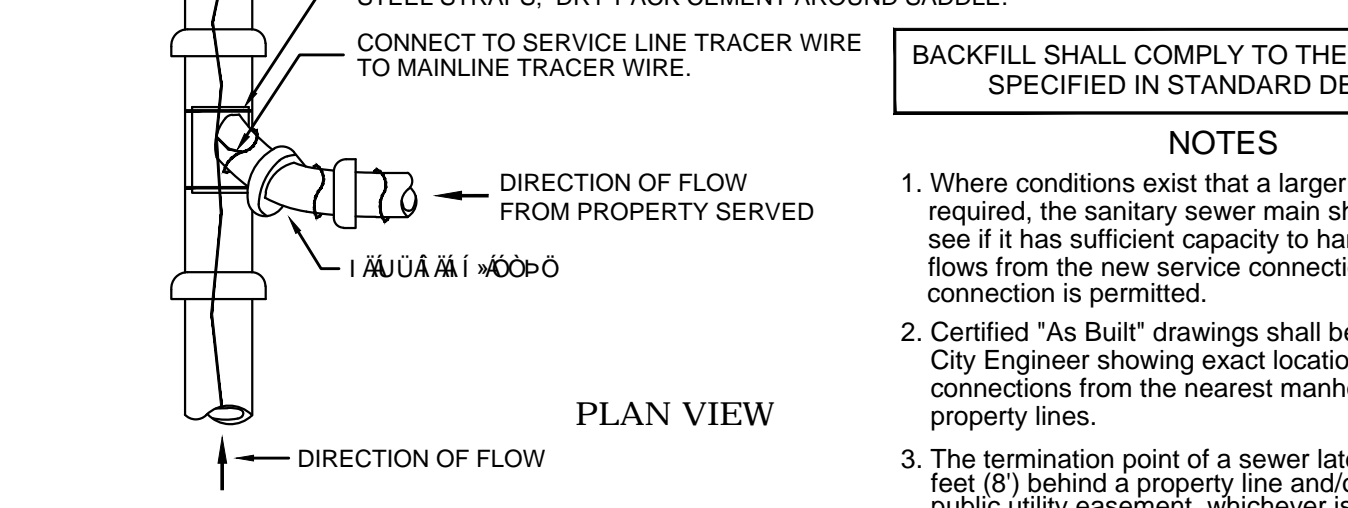
- Tracer wire shall be required on all service lines between watermain and meter.
- Meter box to be set adjacent to the public right-of-way line.
- Water meter boxes that are subject to vehicular traffic must include a traffic rated cast iron lid.
- Meter boxes are not to be located inside sidewalks.
- On multiple 2" services, saddles shall be at least 24" clear (minimum).
- All new water service requests 2" and smaller off of an existing water main will be done by City of Yuma utilities personnel.

2" WATER SERVICE

C.O.Y. NO. 5-150 NTS **E** 14



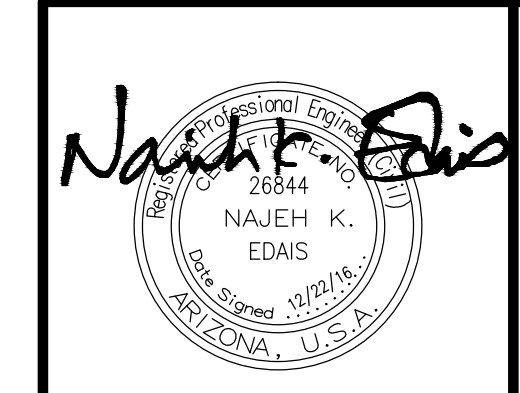
PROFILE



PLAN VIEW

**LATERAL CONNECTION TO WASTEWATER
SYSTEM WITH 45° BEND**

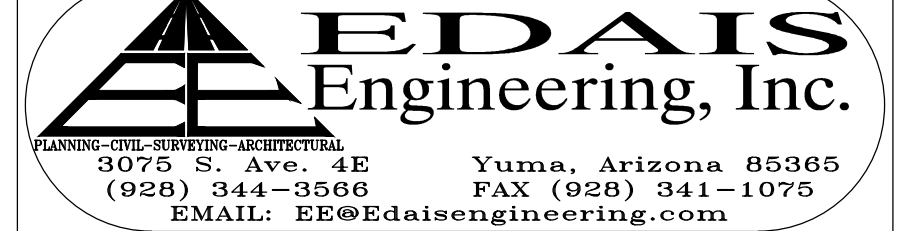
C.O.Y. STD. NO. 5-020 NTS **H** 14



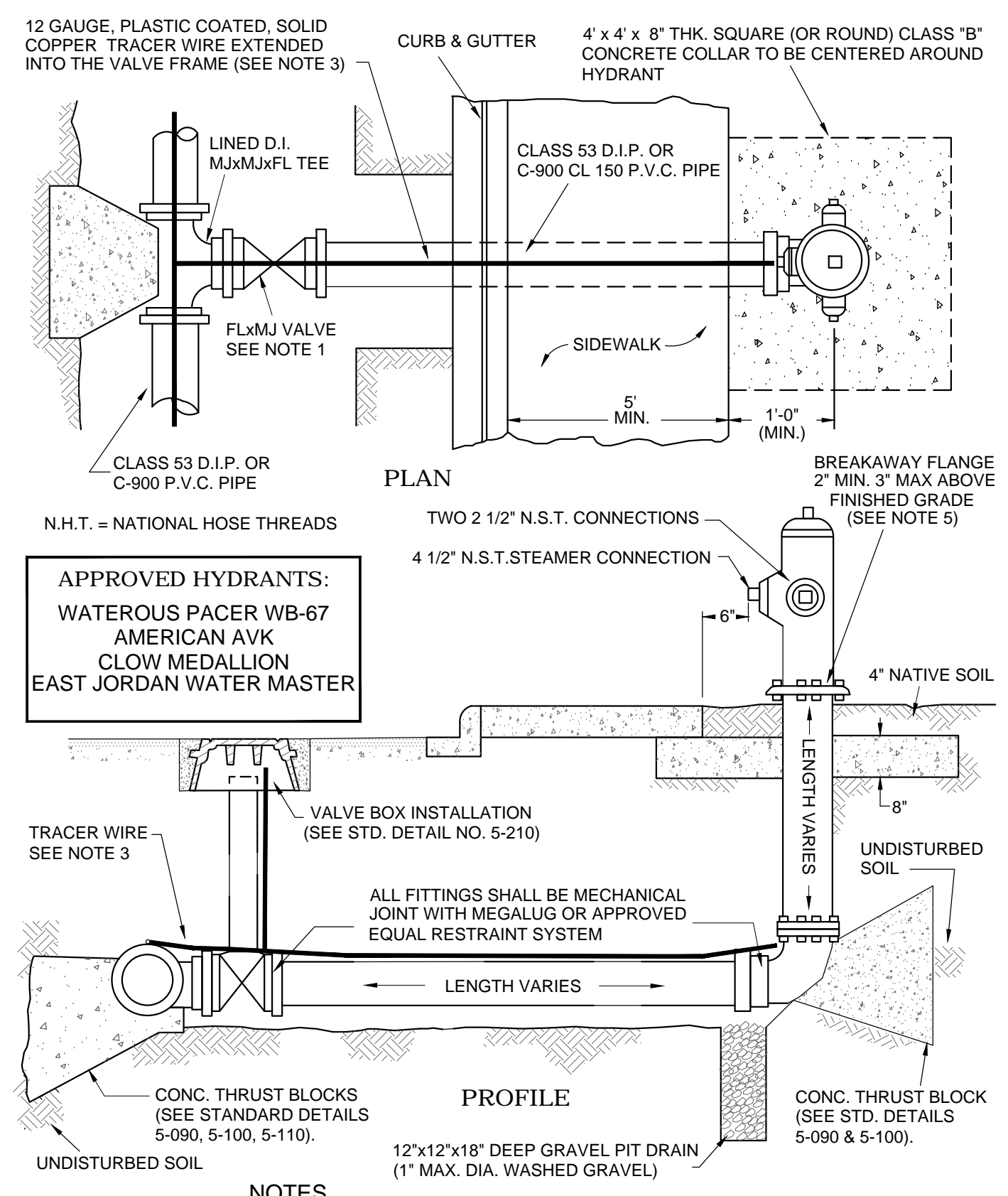
**LAS QUINTAS DE SAN LUIS 2
SUBDIVISION**

WATER & SEWER DETAILS

SCALE: AS SHOWN	DESIGNED BY: N.K.E.	CHECKED BY: N.K.E.
DATE: JUL. 16	DRAWN BY: STAFF	JOB No. 14-015



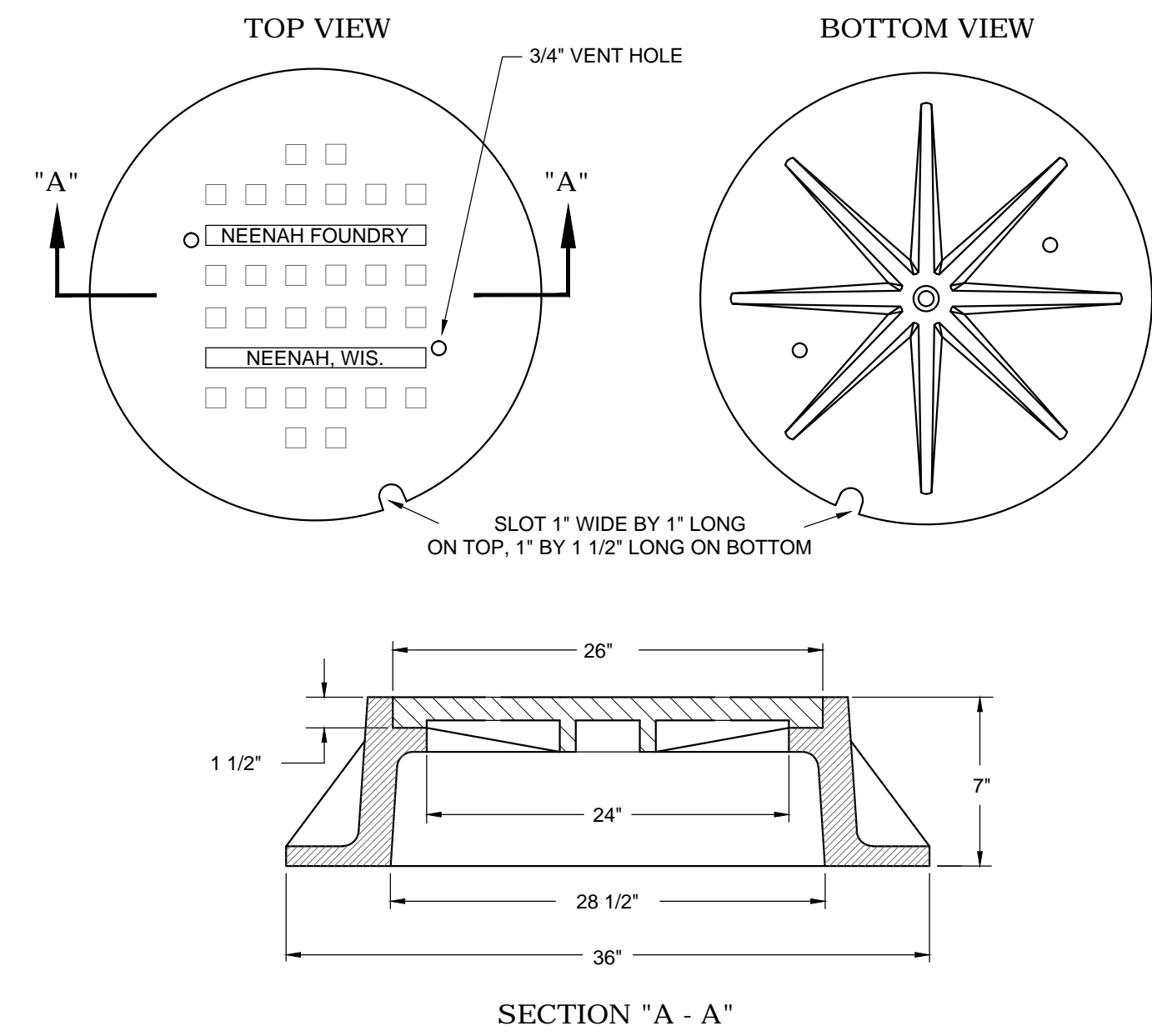
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APPROVED HYDRANTS:
 WATEROUS PACER WB-67
 AMERICAN AVK
 CLOW MEDALLION
 EAST JORDAN WATER MASTER

NOTES

- 4" through 12" gate valves shall be American Darling resilient wedge 80 CSR, Waterous Series 500 resilient wedge, American AVK resilient wedge or Clow resilient wedge.
- All buried ductile iron pipe must be wrapped with 10mil (minimum) polyethylene plastic wrap.
- Tracer wire required on line from water main to hydrant.
- No break-away flange bolts may make contact with soil.
- Utilize a MJ Gradelock or offset to obtain measurement.

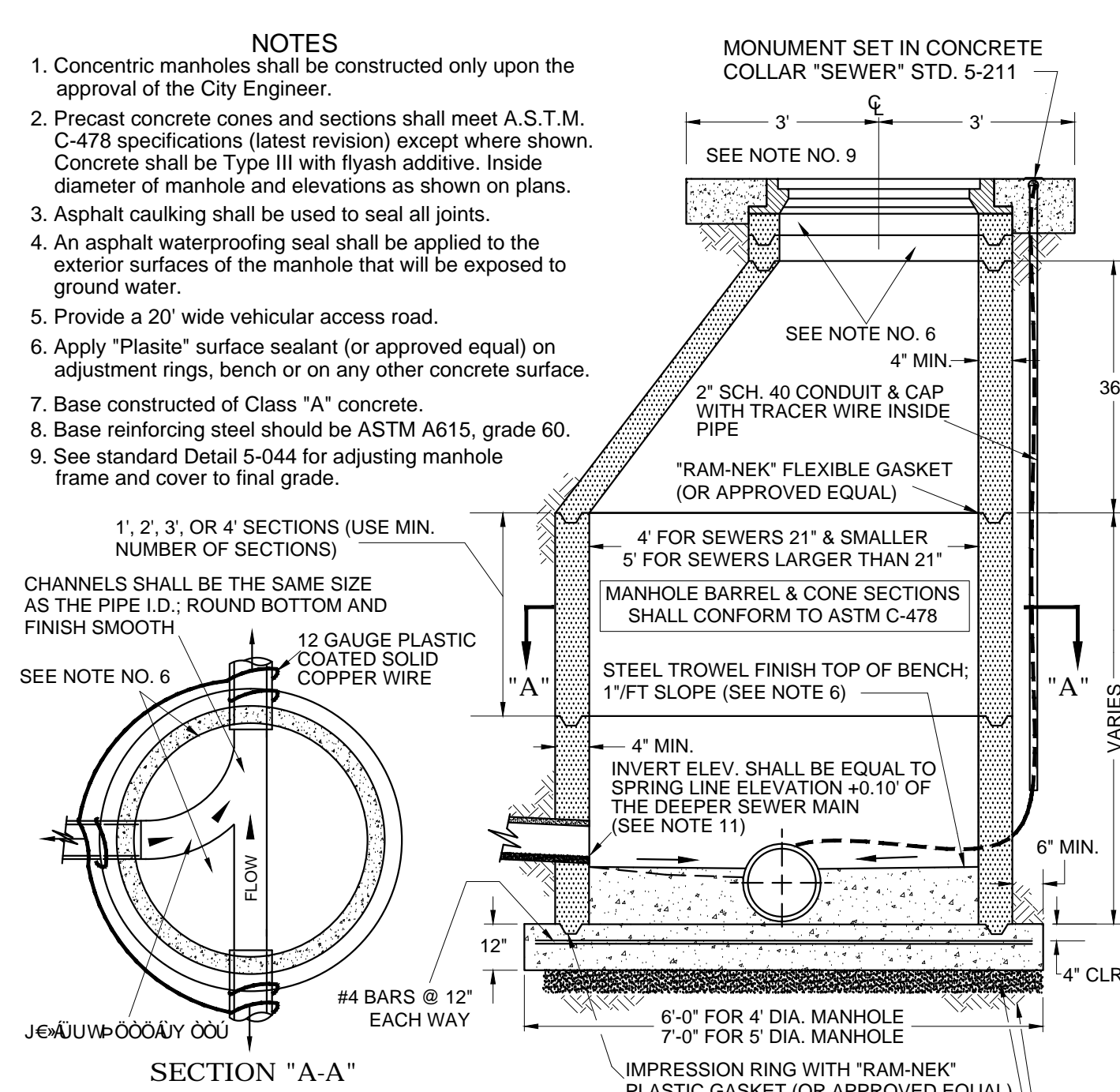


NOTES

- The top of the cover and frame shall be flush and there shall be 1/8" horizontal clearance all around the frame and cover.
- All covers shall have the letter "S" cast into it. The letter shall be raised 5/16" and be no less than 2 1/2" high.
- Covers shall have a minimum of two 3/4" vent holes. Should a manhole be located within 500 feet of an interceptor sewer the vent holes are to be eliminated.
- Standard manhole covers are the Neenah R-1595, R-1642 or approved equal.

STANDARD MANHOLE FRAME AND COVER **K** 15
 MOD. C.O.Y. STD. NO. 5-040 NTS

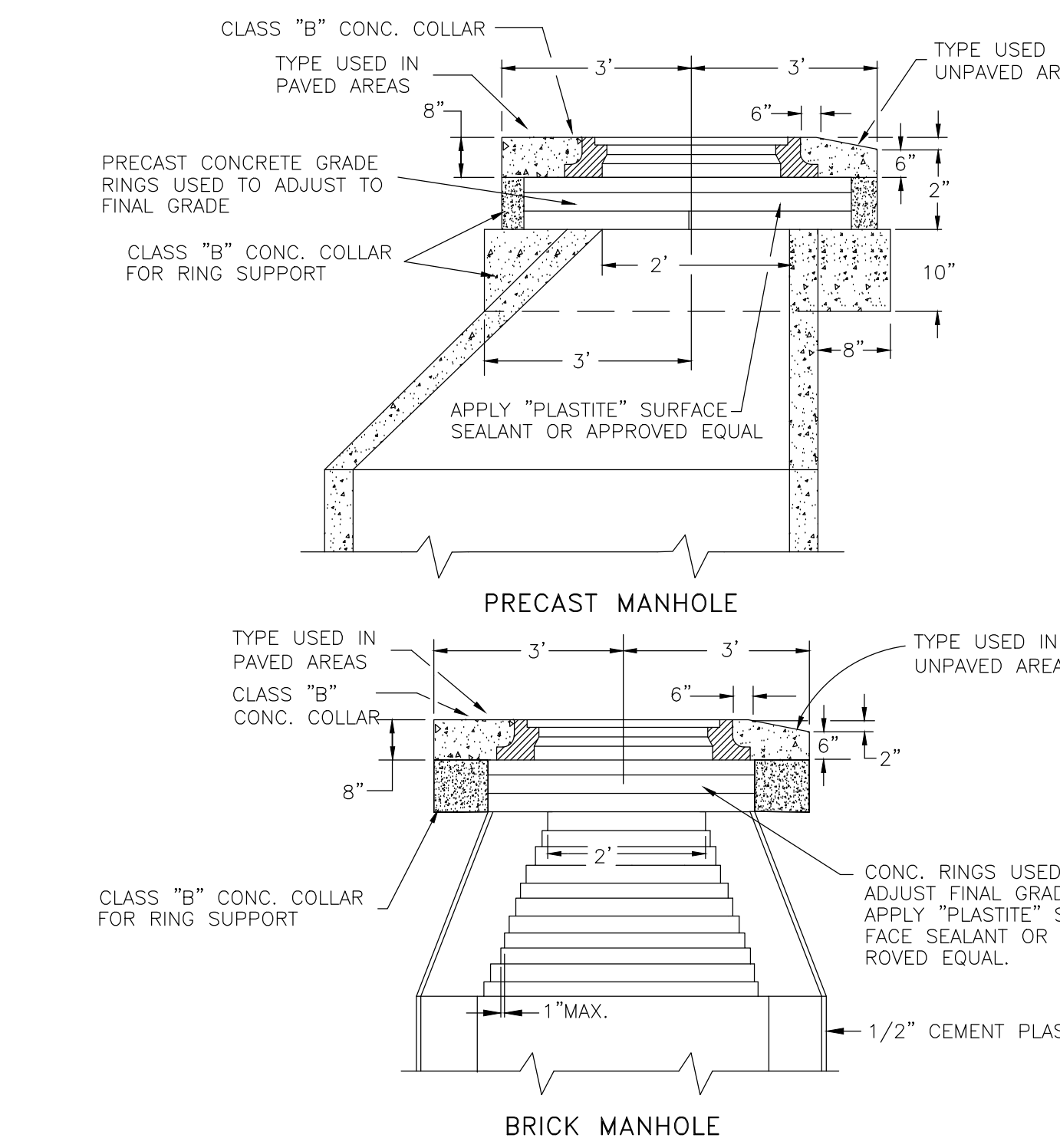
UTILITY LOCATIONS FOR PRINCIPAL ARTERIAL STREETS FIRE HYDRANTS **I** 15
 MOD. C.O.Y. STD. NO. 5-120 NTS



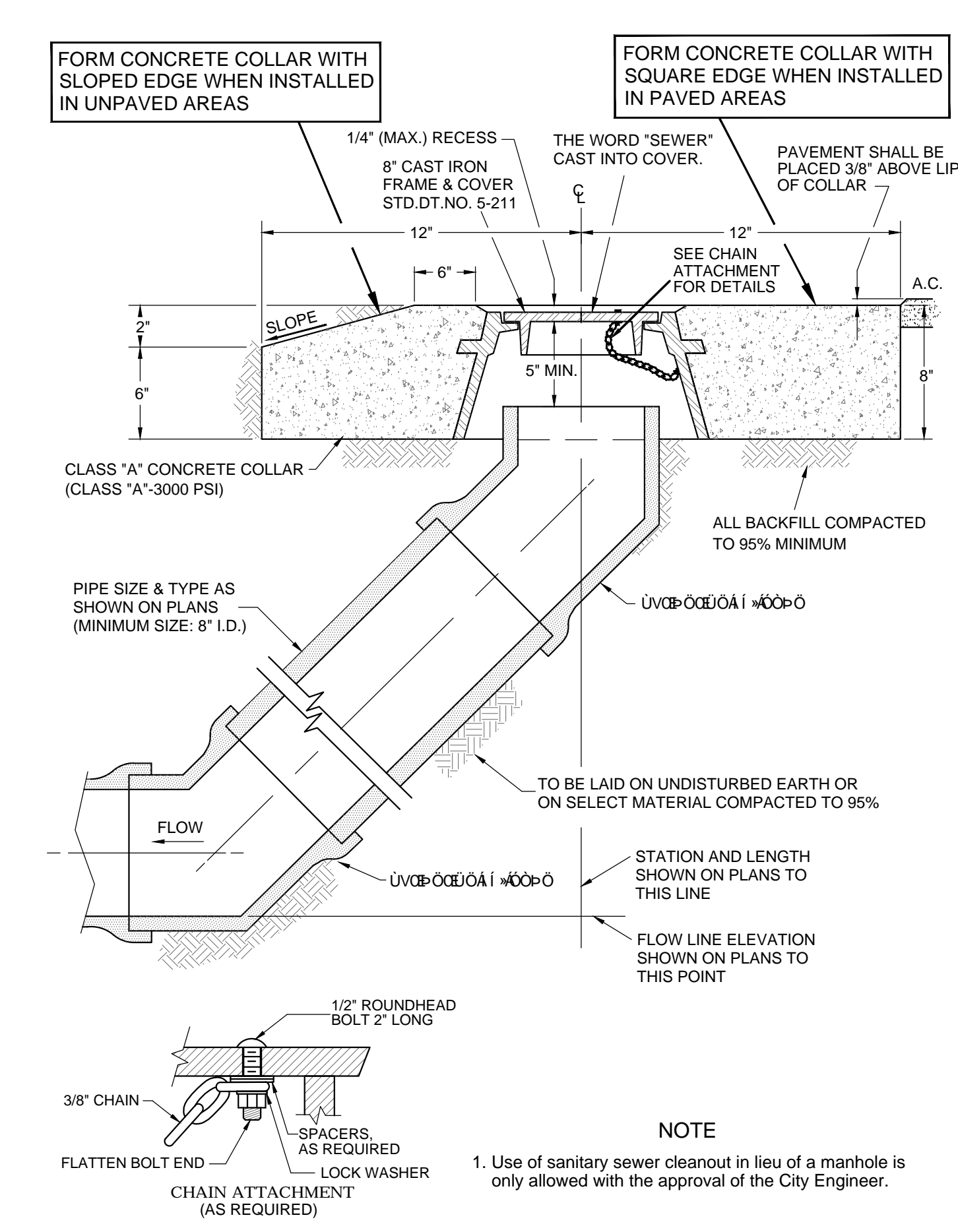
NOTES

- Concentric manholes shall be constructed only upon the approval of the City Engineer.
- Precast concrete cones and sections shall meet A.S.T.M. C-478 specifications (latest revision) except where shown. Concrete shall be Type III with flyash additive. Inside diameter of manhole and elevations as shown on plans.
- Asphalt caulking shall be used to seal all joints.
- An asphalt waterproofing seal shall be applied to the exterior surfaces of the manhole that will be exposed to ground water.
- Provide a 20' wide vehicular access road.
- Apply "Plastite" surface sealant (or approved equal) on adjustment rings, bench or on any other concrete surface.
- Base constructed of Class "A" concrete.
- Base reinforcing steel should be ASTM A615, grade 60.
- See standard detail 5-044 for adjusting manhole frame and cover to final grade.
- 1, 2, 3, or 4 SECTIONS (USE MIN. NUMBER OF SECTIONS)
- CHANNELS SHALL BE THE SAME SIZE AS THE PIPE I.D.; ROUND BOTTOM AND FINISH SMOOTH
- 12 GAUGE PLASTIC COATED SOLID COPPER WIRE
- SEE NOTE NO. 6
- MANHOLE BARREL & CONE SECTIONS SHALL CONFORM TO ASTM C-478
- "RAM-NEK" FLEXIBLE GASKET (OR APPROVED EQUAL)
- STEEL TROWEL FINISH TOP OF BENCH; 1 1/2" SLOPE (SEE NOTE 6)
- 4" MIN.
- INVERT ELEV. SHALL BE EQUAL TO SPRING LINE ELEVATION +0.10' OF THE DEEPER SEWER MAIN (SEE NOTE 11)
- 6" MIN.
- 4" CLR
- 6" (MIN.) A.B.C. COMPACTED TO 95% (MIN.) SUBGRADE COMPACTED TO 95% (MIN.)
- Special details shall be required for: Manholes greater than 40' in depth; at deflection manholes; for multiple pipe penetrations with at least one pipe greater than 24"; or if sewer main is larger than 48" in diameter. Calculations shall be signed/sealed by a registered professional engineer (A.Z. license) and submitted to the City Engineer for review & acceptance.
- The PVC pipe needs to be installed inside the manhole. The top 1/3-1/2 portion of the pipe must be cut off a minimum length of 30" to allow CCT camera access, and to accept flow from lateral piping.

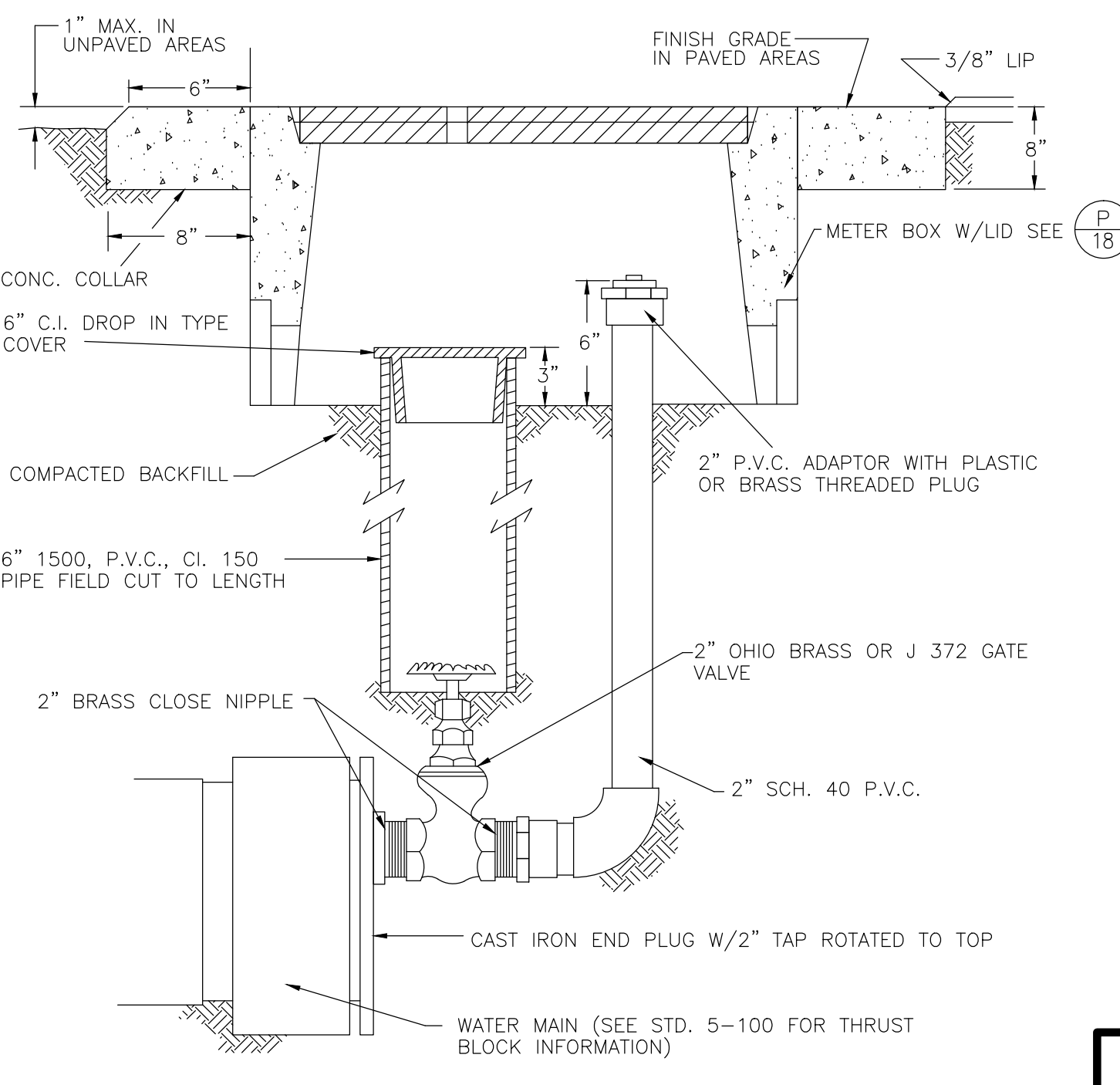
15'-40' DEEP PRE-CAST CONCRETE MANHOLE **J** 15
 MOD. C.O.Y. STD. NO. 5-030 NTS



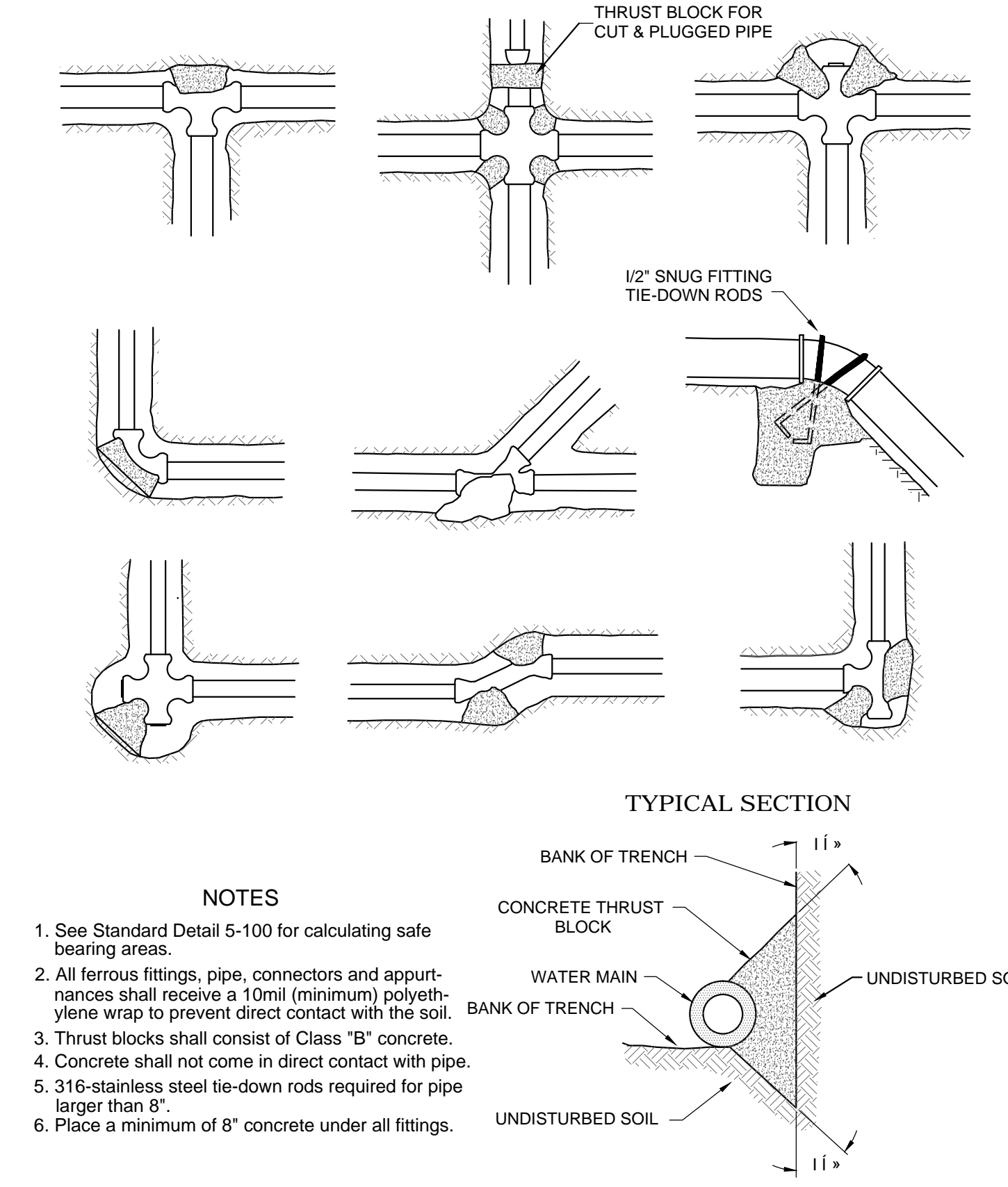
ADJUST MANHOLE TO FINAL GRADE **L** 15
 NTS



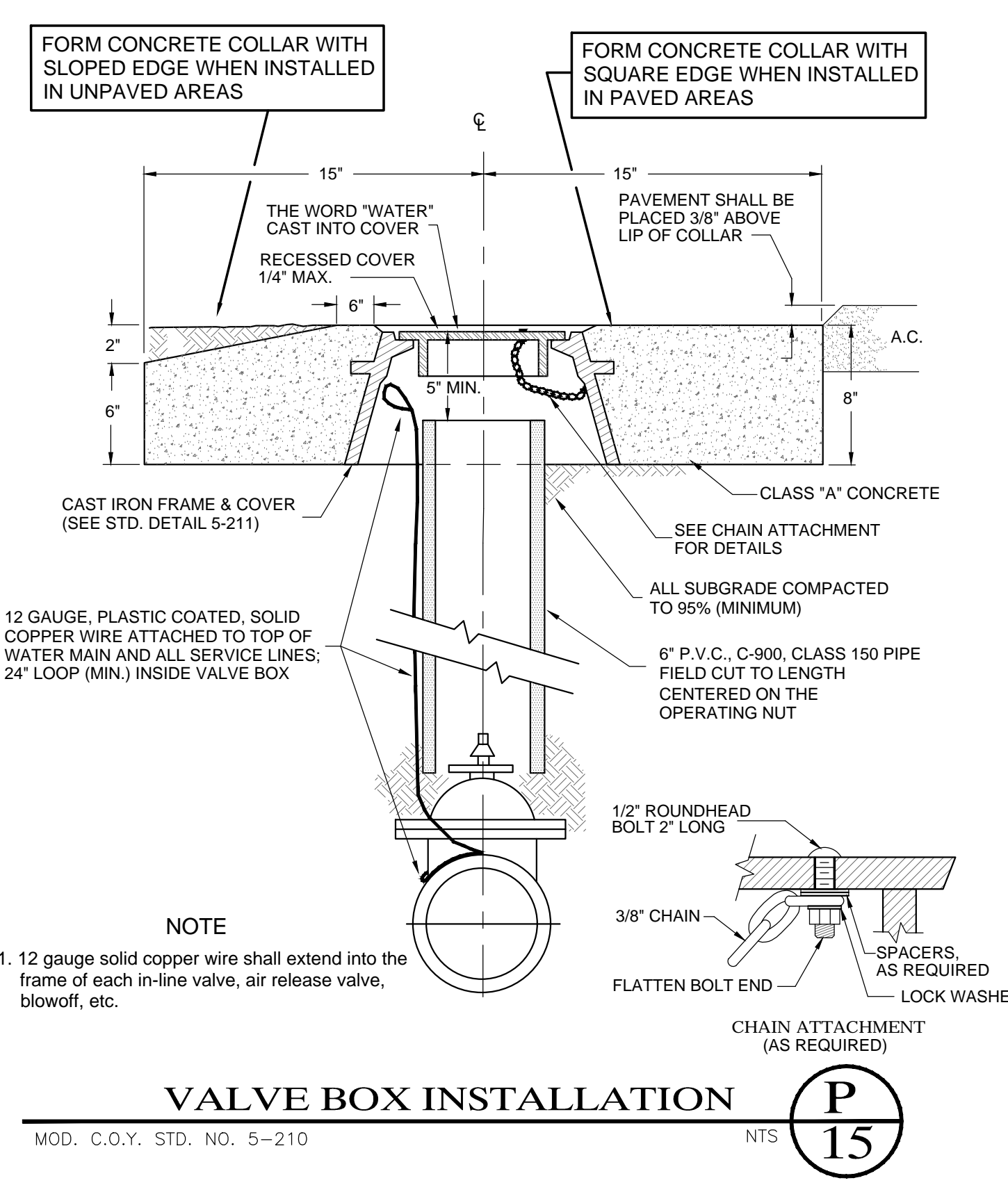
SANITARY SEWER CLEANOUT **M** 15
 MOD. C.O.Y. STD. NO. 5-010 NTS



TEMPORARY BLOWOFF **N** 15
 NTS



TYPICAL THRUST BLOCK INSTALLATION **O** 15
 MOD. C.O.Y. STD. NO. 5-100 NTS



VALVE BOX INSTALLATION **P** 15
 MOD. C.O.Y. STD. NO. 5-210 NTS

Las Quintas de San Luis 2 Subdivision
WATER & SEWER DETAILS

SCALE: AS SHOWN DESIGNED BY: N.K.E. CHECKED BY: N.K.E.
 DATE: JUL. 16 DRAWN BY: STAFF JOB No. 14-015

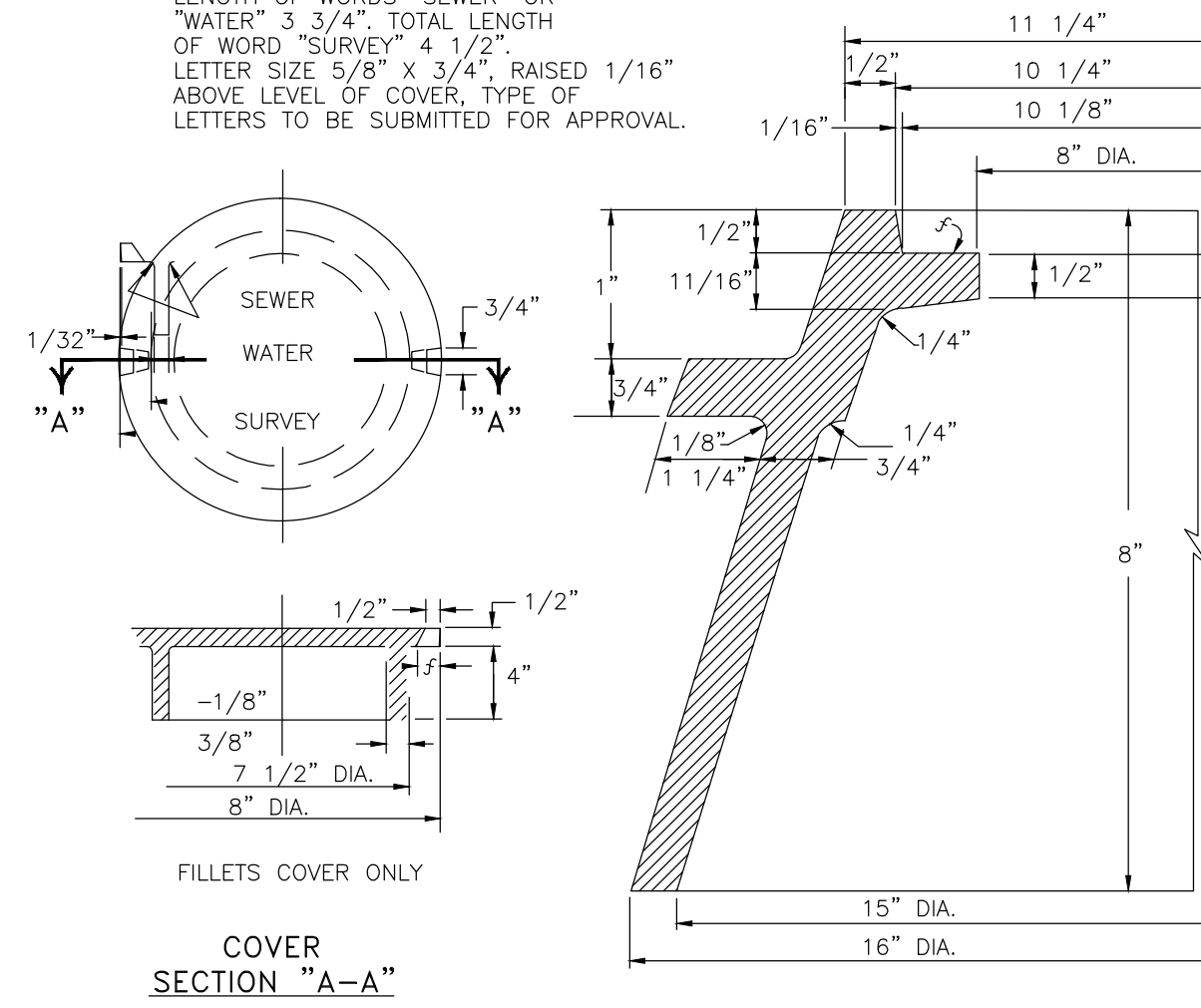
EDAIS Engineering, Inc.
 3075 S. Ave., 4E Yuma, Arizona 85385
 (928) 344-3566 FAX (928) 341-1075
 EMAIL: EE@Edaisengineering.com

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SHEET 15

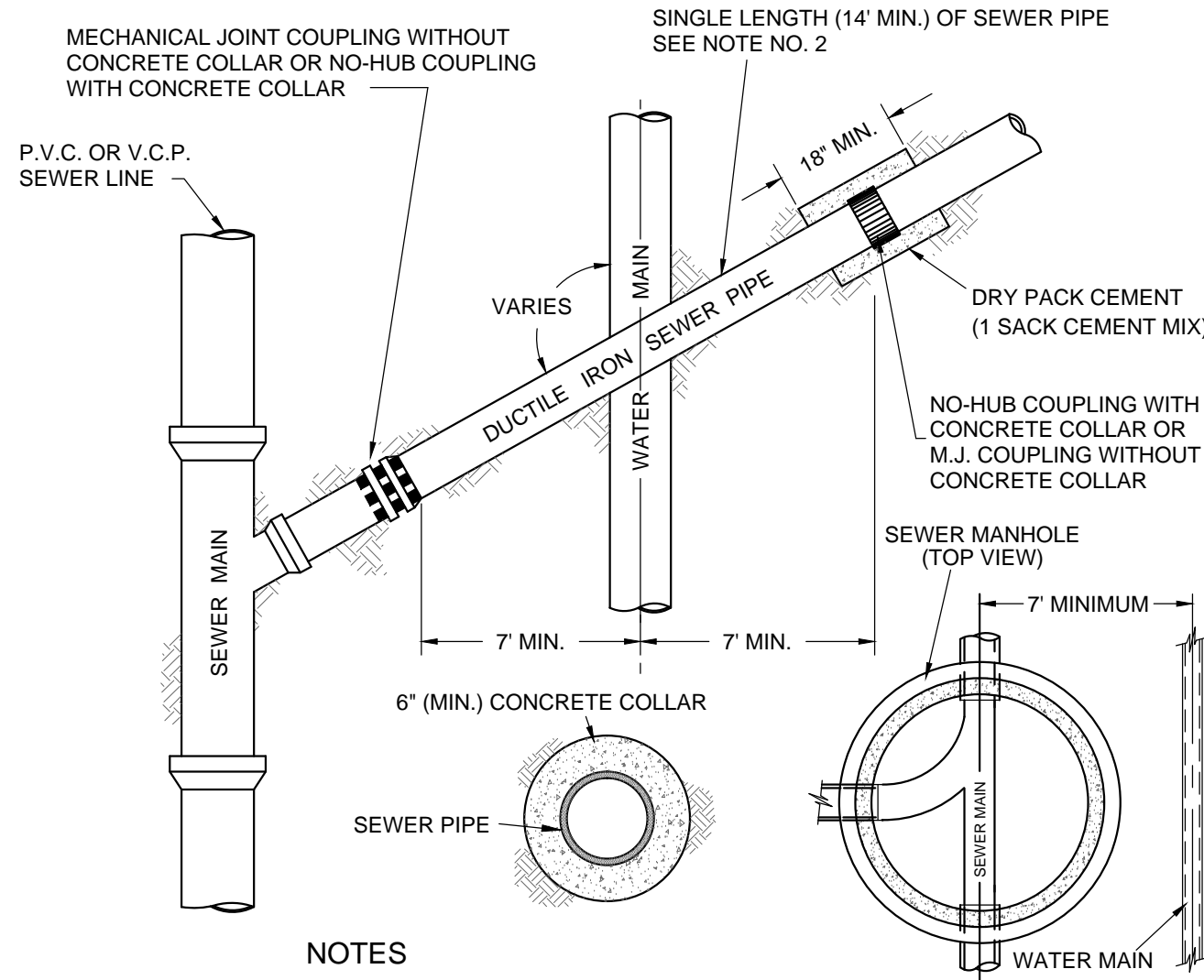
NOTE:

THE WORDS "SEWER", "WATER", OR "SURVEY" ON COVER, THE TOTAL LENGTH OF WORDS "SEWER" OR "WATER" 3 3/4", TOTAL LENGTH OF WORD "SURVEY" 4 1/2". LETTER SIZE 5/8" X 3/4", RAISED 1/16" ABOVE LEVEL OF COVER. TYPE OF LETTERS TO BE SUBMITTED FOR APPROVAL.



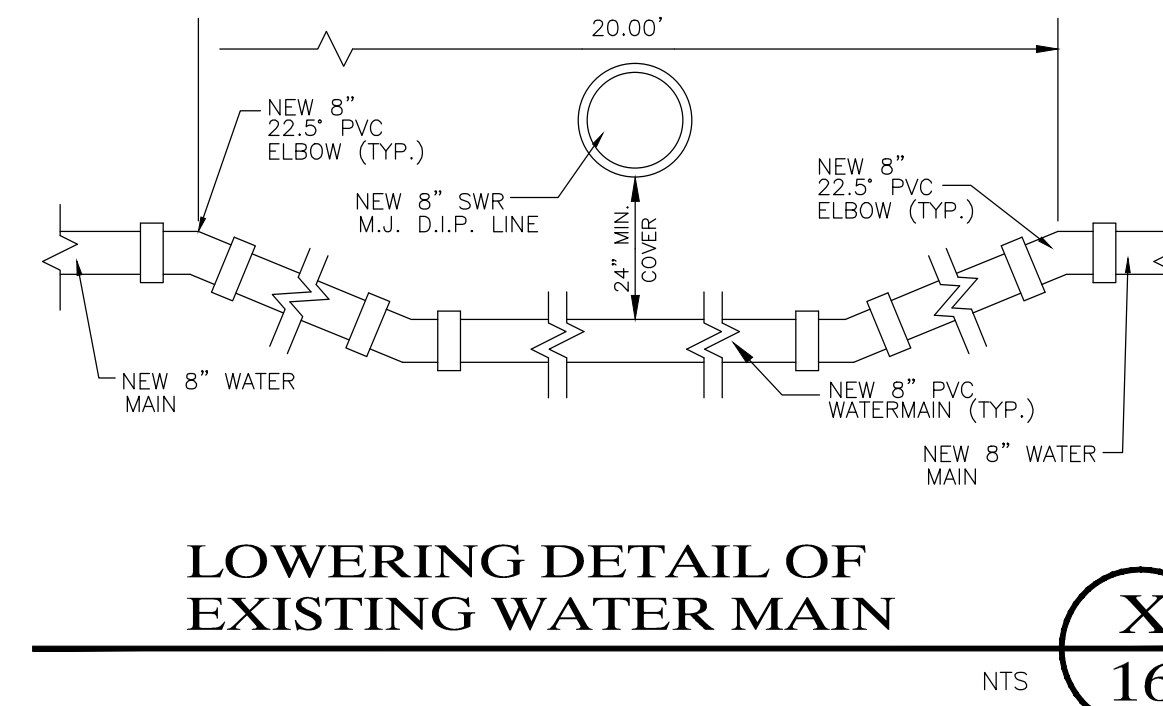
8" C.I. FRAME AND COVER

Q 16



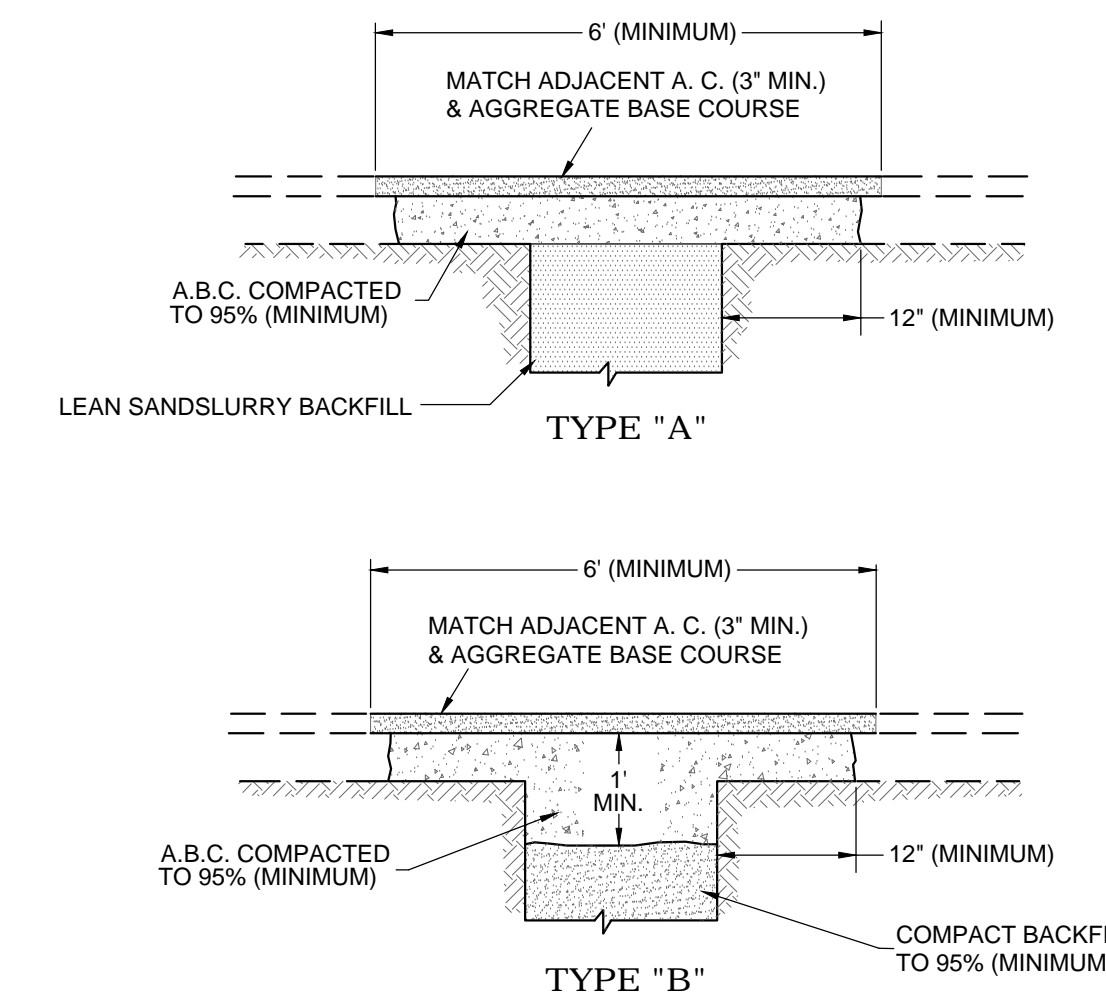
TYPICAL WATER & SEWER CROSSINGS

T 16



LOWERING DETAIL OF EXISTING WATER MAIN

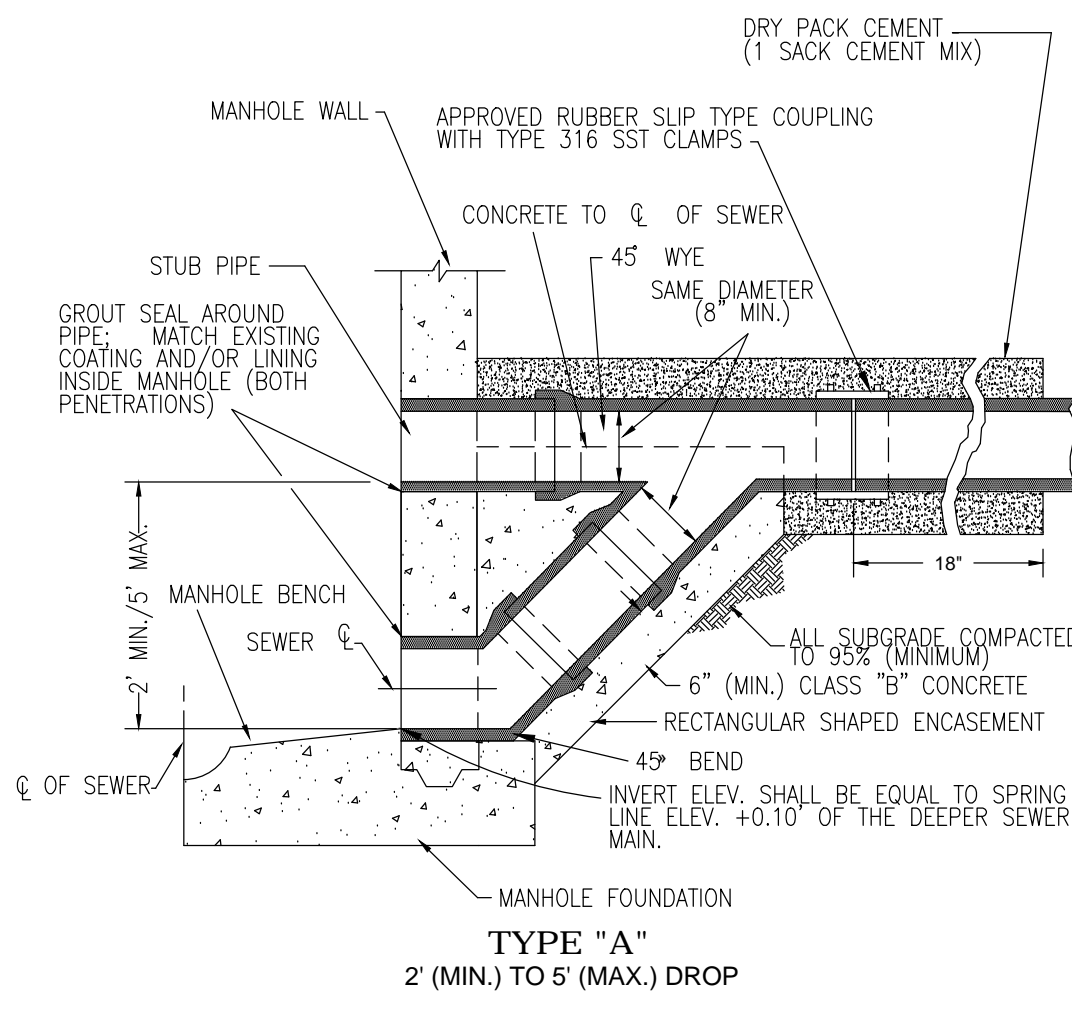
X 16



- NOTES**
- This detail is to be used for trench backfill and pavement replacement.
 - All cut edges shall be sawcut to a true regular line and free of all foreign matter.
 - Edges of asphalt pavement shall be painted with emulsified asphalt or hot asphalt before permanent repair.
 - Type "B" repairs will not be permitted without prior approval of the City Engineer.
 - Asphaltic concrete for pavement repairs shall meet or be equivalent to requirements of the latest Standard Specification published by the City of Yuma.
 - Pavement replacement in State highways or County highways shall be in accordance with ADOT and/or Yuma County requirements.
 - Lean sand slurry shall consist of one sack of cement per cubic yard of clean sand.
 - All trenches shall be cold-patched if left open to traffic prior to hot-mix paving. All trenches shall be hot-mix paved within two (2) weeks from its excavation.

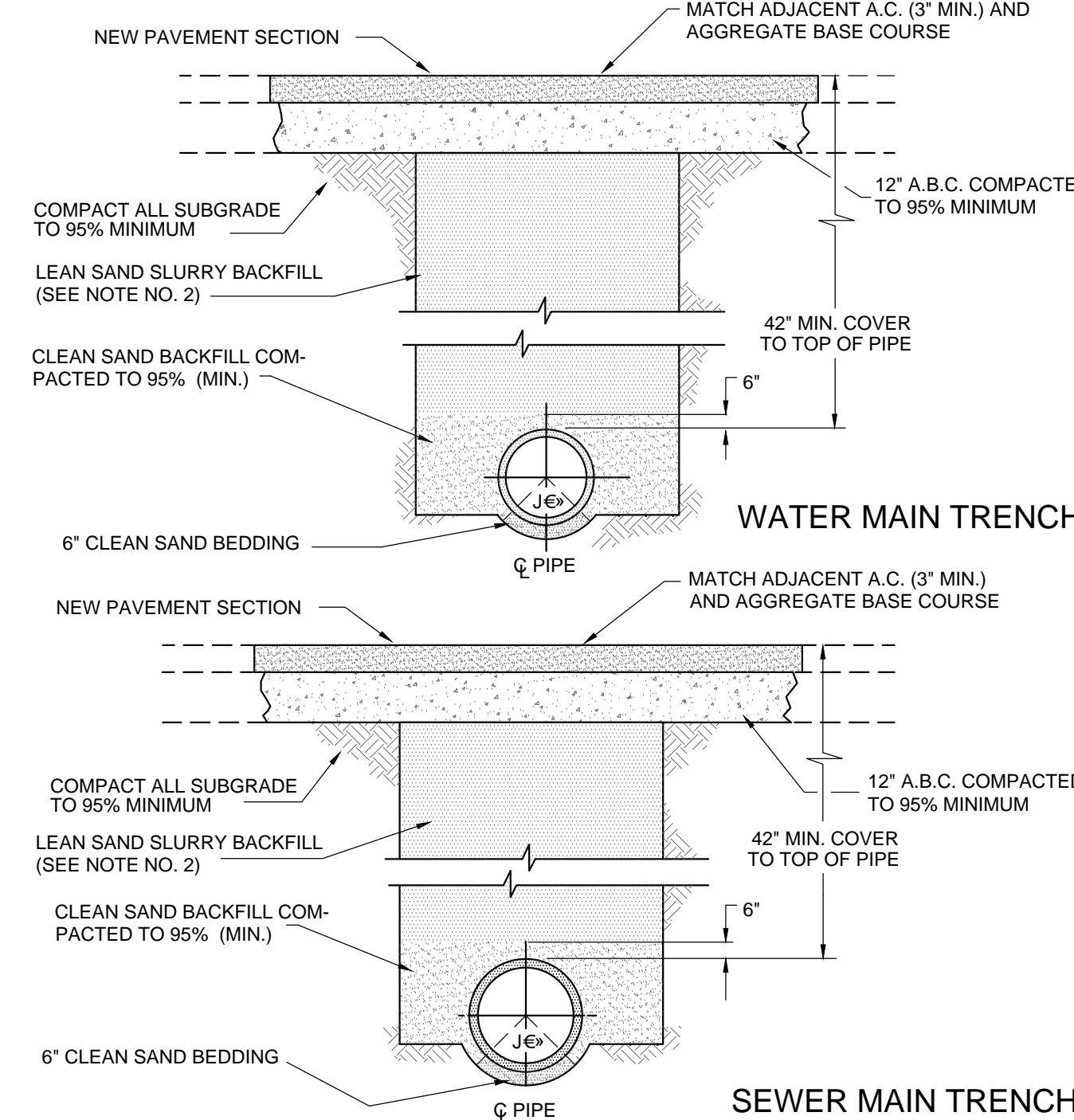
PAVEMENT REPLACEMENT

Z 16



TYPE "A" DROP SEWER CONNECTION

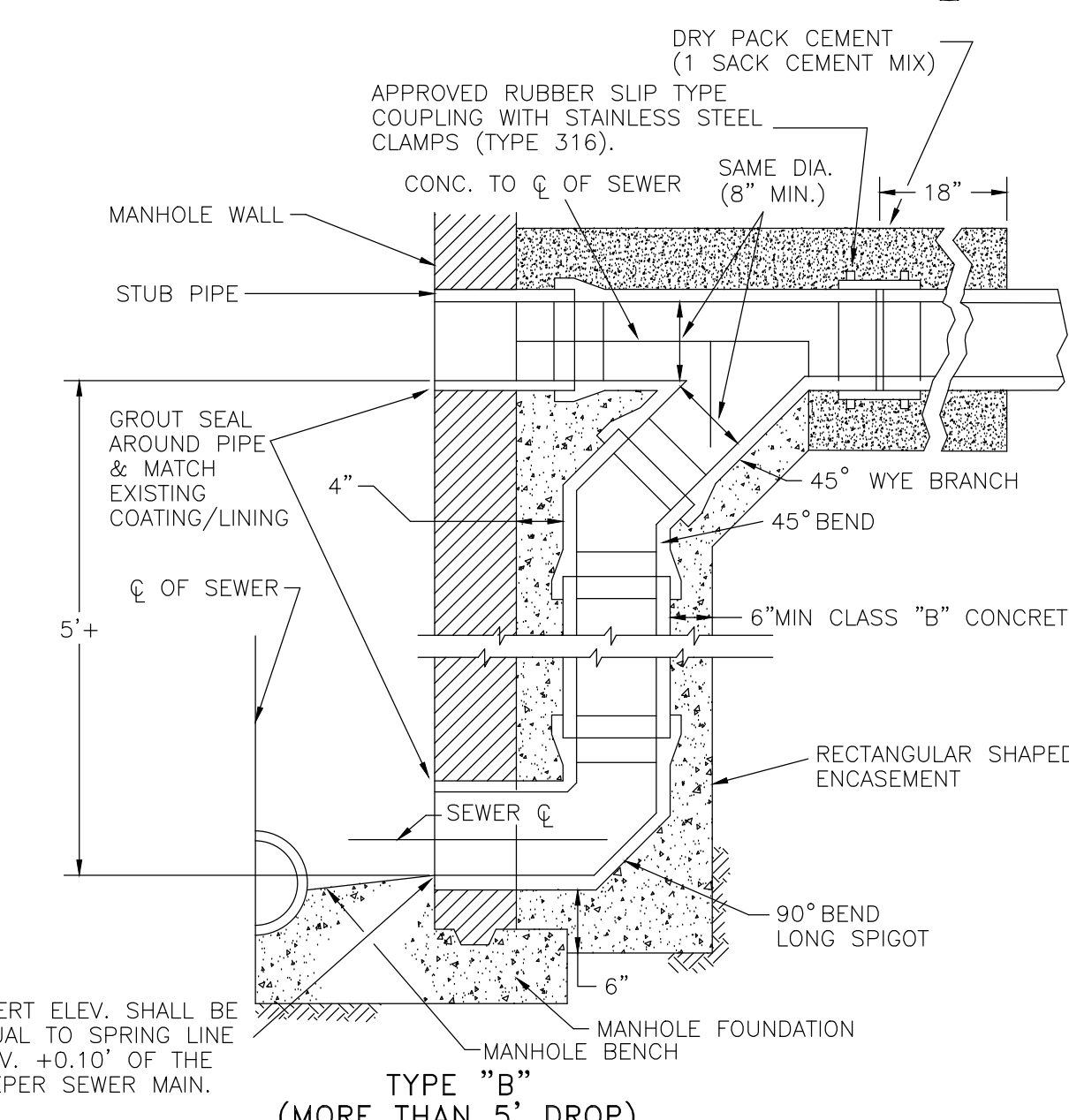
R 16



- NOTES**
- Native soil may be used for backfill when approved by the City Engineer.
 - Lean sand slurry shall consist of one sack of cement per cubic yard of clean sand.
 - Bedding shown is a minimum standard for shallow trenches and acceptable native base. Exact type of bedding shall be determined by the City Engineer.
 - Ditch sides shall be sloped or shored as required per O.S.H.A. standards.
 - All trenches shall be cold-patched if left open to traffic. All trenches shall be hot-mix paved within two (2) weeks of its excavation.

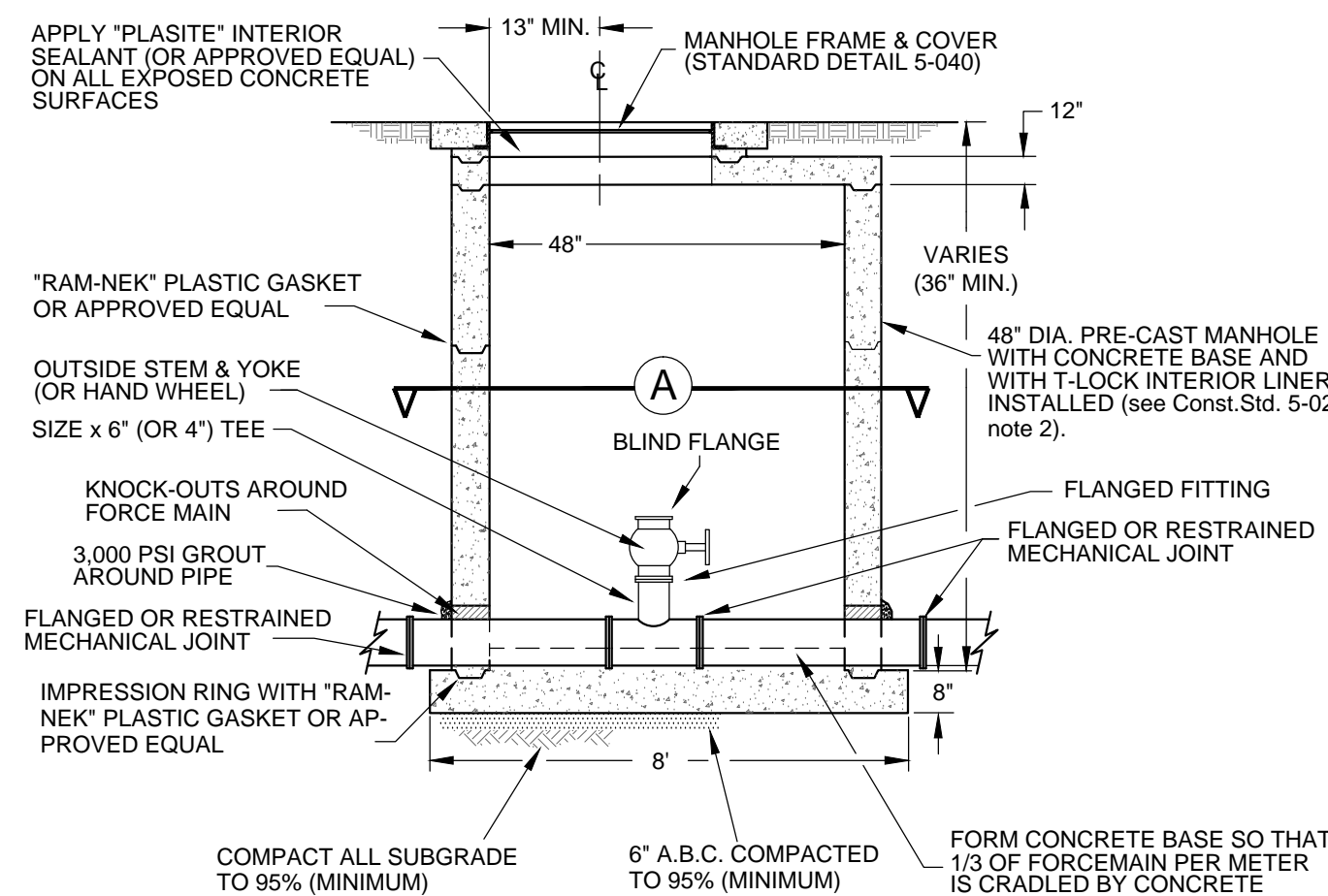
TYPICAL WATER & SEWER MAIN TRENCH BACKFILL

V 16



TYPE "B" DROP SEWER CONNECTION

S 16



- NOTES**
- All buried ductile iron pipe must be wrapped with 10 mil (minimum) polyethylene plastic wrap.
 - The maximum spacing between this type of cleanout is 600' on 8" and larger force mains.
 - Emphasis shall be placed on the special hardware necessary for use in a pressure system.
 - There shall be no pipe joints within two feet (2') of a manhole's exterior wall face.
 - Back fill used to fill manhole excavation shall be a one sack cement per cubic yard of sand slurry mixture.
 - Apply asphalt waterproofing to the exterior surfaces of the manhole. Apply asphalt caulking to seal all joints.
 - Precast concrete manholes shall have a PVC T-Lock liner, sealed gas tight, as manufactured by Ameron (or approved equal). Liner and interior surfaces shall be spark tested (applies only to sanitary sewer manholes) see Arizona Administrative Code R18-9-E 301 D.3.e Manholes General Permit. Sewage Collection Systems pertaining to Holiday testing.
 - No drains allowed in base.

FORCEMAIN PRESSURE CLEANOUT

Y 16

LAS QUINTAS DE SAN LUIS 2 SUBDIVISION

WATER & SEWER DETAILS

SCALE: AS SHOWN DESIGNED BY: N.K.E. CHECKED BY: N.K.E.
 DATE: JUL. 16 DRAWN BY: STAFF JOB No. 14-015

3075 S. Ave. 4E Yuma, Arizona 85365
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SHEET

16

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