ELDORADO SPRINGS
PUBLIC STREET IMPROVEMENT PLANS
EL PASO COUNTY, COLORADO

STANDARD CONSTRUCTION NOTES:

1. ALL DRAINAGE AND ROADWAY CONSTRUCTION SHALL MEET THE STANDARDS AND SPECIFICATIONS OF THE CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2, AND THE EL PASO COUNTY ENGINEERING CRITERIA MANUAL.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION AND FIELD LOCATION OF ALL EXISTING UTILITIES, WHETHER SHOWN ON THE PLANS OR NOT, BEFORE BEGINNING CONSTRUCTION. LOCATION OF EXISTING UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO CONSTRUCTION. CALL 811 TO CONTACT THE UTILITY NOTIFICATION CENTER OF COLORADO (UNCC).
3. CONTRACTOR SHALL KEEP A COPY OF THESE APPROVED PLANS, THE GRADING AND EROSION CONTROL PLAN, THE STORMWATER MANAGEMENT PLAN (SWMP), THE SOILS AND GEOTECHNICAL REPORT, AND THE APPROPRIATE DESIGN AND CONSTRUCTION STANDARDS AND SPECIFICATIONS AT THE JOB SITE AT ALL TIMES, INCLUDING THE FOLLOWING:
   a. EL PASO COUNTY ENGINEERING CRITERIA MANUAL (ECM)
   b. CITY OF COLORADO SPRINGS/EL PASO COUNTY DRAINAGE CRITERIA MANUAL, VOLUMES 1 AND 2
   c. COLORADO DEPARTMENT OF TRANSPORTATION (CDOT) STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION
   d. CDOT M & S STANDARDS
4. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING. ANY MODIFICATIONS NECESSARY TO MEET CRITERIA AFTER-THE-FACT WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
5. IT IS THE DESIGN ENGINEER'S RESPONSIBILITY TO ACCURATELY SHOW EXISTING CONDITIONS, BOTH ONSITE AND OFFSITE, ON THE CONSTRUCTION PLANS. ANY MODIFICATIONS NECESSARY DUE TO CONFLICTS, OMISSIONS, OR CHANGED CONDITIONS WILL BE ENTIRELY THE DEVELOPER'S RESPONSIBILITY TO RECTIFY.
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD) – INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA.
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

SIGNAGE & STRIPING NOTES:

1. ALL SIGNS AND PAVEMENT MARKINGS SHALL BE IN COMPLIANCE WITH THE CURRENT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED BY A METHOD THAT DOES NOT MATERIALLY DAMAGE THE PAVEMENT. THE PAVEMENT MARKINGS SHALL BE REMOVED TO THE EXTENT THAT THEY WILL NOT BE VISIBLE UNDER DAY OR NIGHT CONDITIONS. AT NO TIME WILL IT BE ACCEPTABLE TO PAINT OVER EXISTING PAVEMENT MARKINGS.
3. ANY DEVIATION FROM THE STRIPING AND SIGNING PLAN SHALL BE APPROVED BY EL PASO COUNTY DEVELOPMENT SERVICES.
4. ALL SIGNS SHOWN ON THE SIGNING AND STRIPING PLAN SHALL BE NEW SIGNS. EXISTING SIGNS MAY REMAIN OR BE REUSED IF THEY MEET CURRENT EL PASO COUNTY AND MUTCD STANDARDS.
5. STREET NAME AND REGULATORY STOP SIGNS SHALL BE ON THE SAME POST AT INTERSECTIONS.
6. ALL REMOVED SIGNS SHALL BE DISPOSED OF IN A PROPER MANNER BY THE CONTRACTOR.
7. ALL STREET NAME SIGNS SHALL HAVE "D" SERIES LETTERS, WITH LOCAL ROADWAY SIGNS BEING 4" UPPER-LOWER CASE LETTERING ON 8" BLANK AND NON-LOCAL ROADWAY SIGNS BEING 6" LETTERING, UPPER-LOWER CASE ON 12" BLANK, WITH A WHITE BORDER THAT IS NOT RECESSED. MULTI-LANE ROADWAYS WITH SPEED LIMITS OF 40 MPH OR HIGHER SHALL HAVE 8" UPPER-LOWER CASE LETTERING ON 18" BLANK WITH A WHITE BORDER THAT IS NOT RECESSED. THE WIDTH OF THE NON-RECESSED WHITE BORDERS SHALL MATCH PAGE 255 OF THE 2012 MUTCD "STANDARD HIGHWAY SIGNS"
8. ALL TRAFFIC SIGNS SHALL HAVE A MINIMUM HIGH INTENSITY PRISMATIC GRADE SHEETING.
9. ALL LOCAL RESIDENTIAL STREET SIGNS SHALL BE MOUNTED ON A 1.75" x 1.75" SQUARE TUBE SIGN POST AND STUB POST BASE. FOR OTHER APPLICATIONS, REFER TO THE CDOT STANDARD S-614-8 REGARDING USE OF THE P2 TUBULAR STEEL POST SLIPBASE DESIGN.
10. ALL SIGNS SHALL BE SINGLE SHEET ALUMINUM WITH 0.100" MINIMUM THICKNESS.
11. ALL LIMIT LINES/STOP LINES, CROSSWALK LINES, PAVEMENT LEGENDS, AND ARROWS SHALL BE A MINIMUM 125 MIL THICKNESS PREFORMED THERMOPLASTIC PAVEMENT MARKINGS WITH TAPERED LEADING EDGES PER CDOT STANDARD S-627-1. WORD AND SYMBOL MARKINGS SHALL BE THE NARROW TYPE. STOP BARS SHALL BE 24" IN WIDTH. CROSSWALKS LINES SHALL BE 12" WIDE AND 8' LONG PER CDOT S-627-1.
12. ALL LONGITUDINAL LINES SHALL BE A MINIMUM 15MIL THICKNESS EPOXY PAINT. ALL NON-LOCAL RESIDENTIAL ROADWAYS SHALL INCLUDE BOTH RIGHT AND LEFT EDGE LINE STRIPING AND ANY ADDITIONAL STRIPING AS REQUIRED BY CDOT S-627-1.
13. THE CONTRACTOR SHALL NOTIFY EL PASO COUNTY DEVELOPMENT SERVICES (719) 520-6819 PRIOR TO AND UPON COMPLETION OF SIGNING AND STRIPING.
14. THE CONTRACTOR SHALL OBTAIN A WORK IN THE RIGHT OF WAY PERMIT FROM THE EL PASO COUNTY PUBLIC SERVICE DEPARTMENT (PSD) PRIOR TO ANY SIGNAGE OR STRIPING WORK WITHIN AN EXISTING EL PASO COUNTY ROADWAY.

GENERAL NOTES:

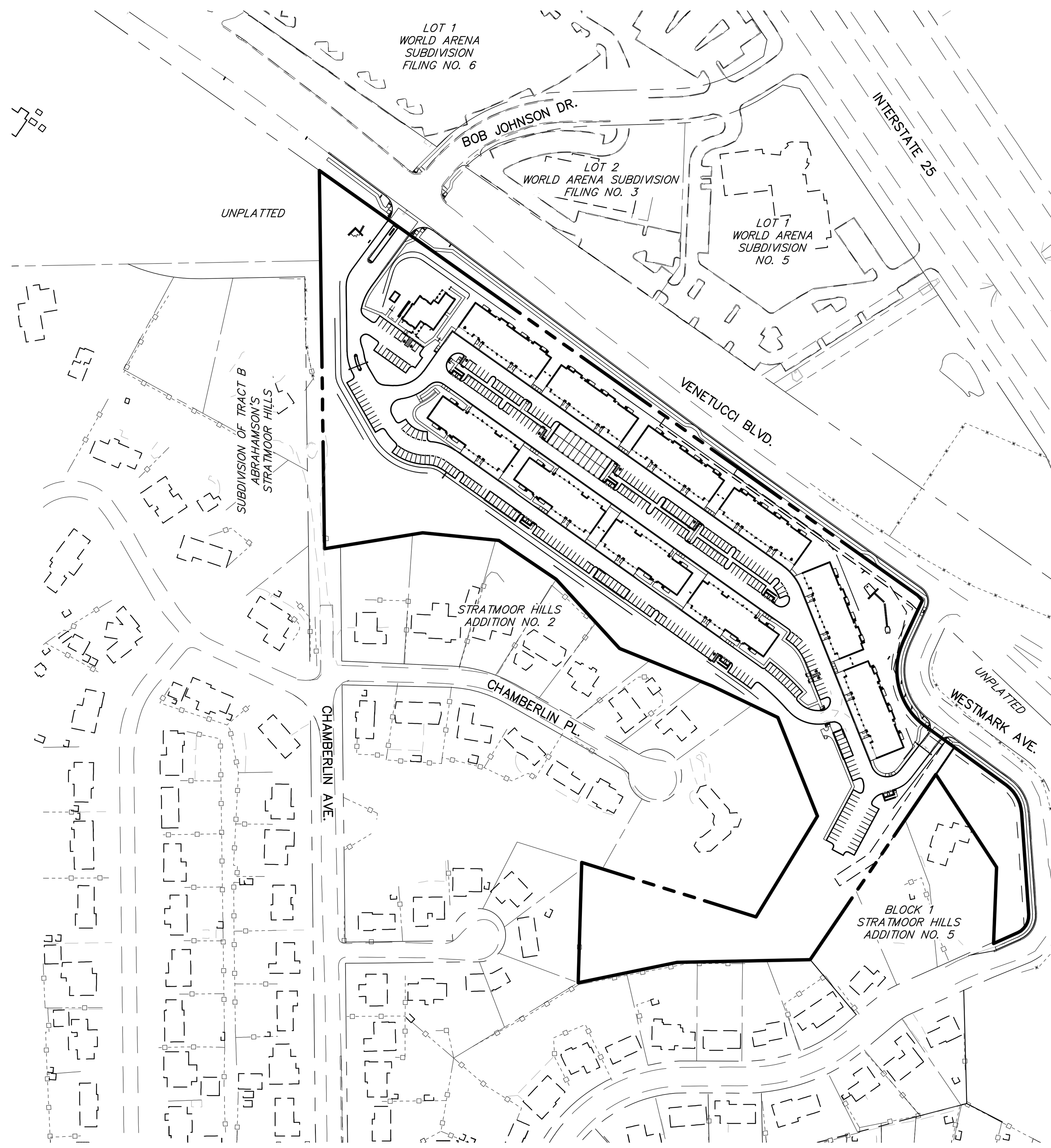
1. ALL PAVING AND CURB & GUTTER SHALL BE CONSTRUCTED SO AS NOT TO OBSTRUCT THE DRAINAGE PATHS. GRADES SHALL BE MAINTAINED AS SHOWN IN THESE PLANS FOR THE DRAINAGE PATHS. IF THIS CANNOT BE ACCOMPLISHED, THEN THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CORRECTION.
2. POSITIVE DRAINAGE AWAY FROM THE BUILDING SHALL BE MAINTAINED DURING AND AFTER SITE CONSTRUCTION. SWALES SHALL BE CONSTRUCTED AROUND BUILDINGS TO DIRECT DRAINAGE AWAY FROM STRUCTURES.
3. SITE CONSTRUCTION INCLUDING PAVING AND CURB & GUTTER INSTALLATION SHALL MAINTAIN POSITIVE DRAINAGE AS SHOWN ON THIS PLAN. STANDING WATER OR PONDING ANYWHERE ON THE SITE IS UNACCEPTABLE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.

BENCHMARKS:

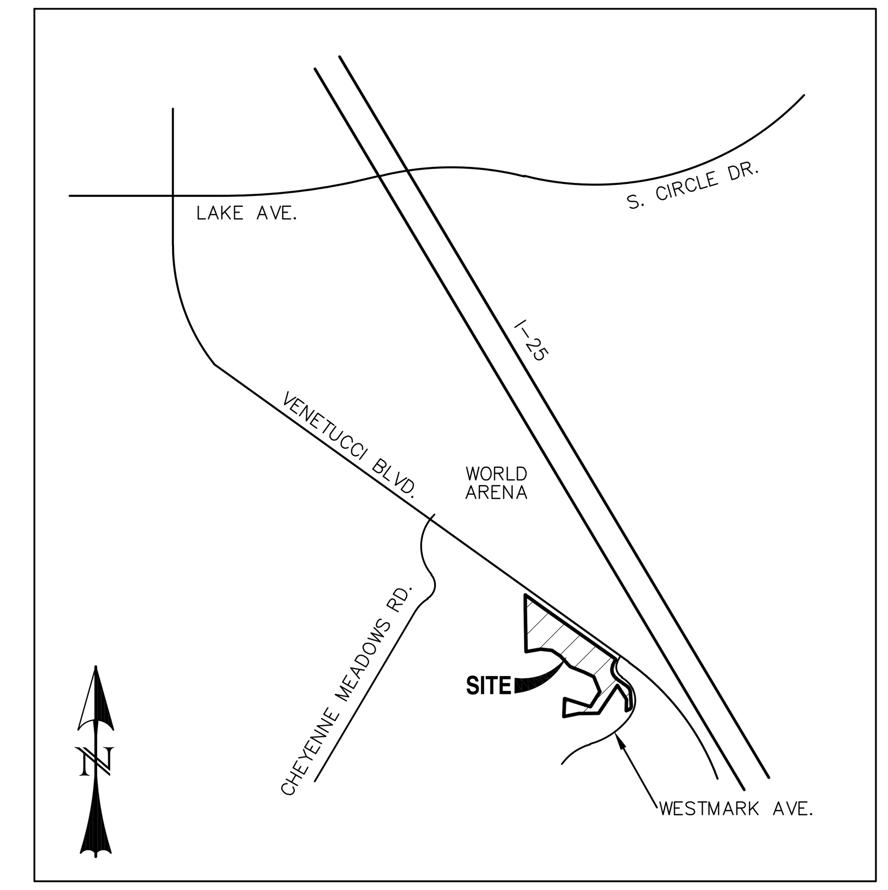
1. THE MOST NORTHERLY CORNER OF THE SITE MONUMENTED BY A 1" YELLOW PLASTIC CAP STAMPED "23890."
   EL = 5865.58
2. THE MOST SOUTHERLY CORNER ALONG US HIGHWAY 85-87 BEING MONUMENTED BY A 1-1/2" ALUMINUM SURVEYORS CAP STAMPED "CCES LLC PLS 30118" LOCATED AT THE WESTERLY CORNER OF THE INTERSECTION OF WESTMARK AVENUE AND US HIGHWAY 85-87.
   EL = 5854.18

BASIS OF BEARING:

THE WEST LINE OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 14 SOUTH, RANGE 66 WEST OF THE 6TH P.M. BEING MONUMENTED AT THE NORTH END BY A 2-1/2" ALUMINUM SURVEYORS CAP WITH APPROPRIATE MARKINGS AND AT THE SOUTH END BY A 3-1/4" ALUMINUM SURVEYORS CAP WITH APPROPRIATE MARKINGS IS ASSUMED TO BEAR N00°44'35"W, A DISTANCE OF 1320.61 FEET.



SITE MAP
SCALE: 1"=200'



VICINITY MAP
SCALE: N.T.S.

CONSTRUCTION PLANS AND SPECIFICATIONS ENGINEERS STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE CITY/COUNTY FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED PLANS AND SPECIFICATIONS MEET THE PURPOSES WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERROR OR OMMISSIONS ON MY PART IN PREPARATION OF THE DETAILED PLANS AND SPECIFICATIONS.

CHAD D. KUZBEK, COLORADO PE #35751 DATE

EL PASO COUNTY (WESTMARK AVENUE ONLY):

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

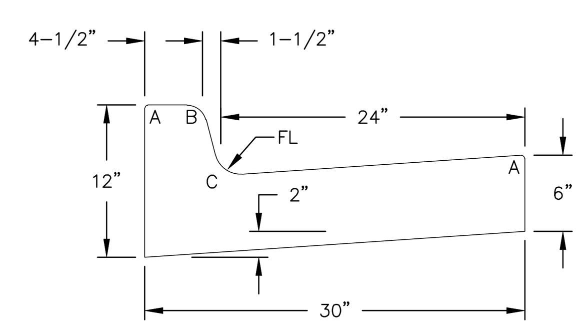
FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

JENNIFER IRVINE, P.E. DATE
COUNTY ENGINEER/ECM ADMINISTRATOR

OWNER STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE STREET IMPROVEMENT PLANS.

OWNER NAME: DATE



TYPE A
VERTICAL CURB & GUTTER
SCALE: N.T.S.

RADII LEGEND:
A = 1/8" TO 1/4"
B = 1-1/2"
C = 1-1/2" TO 2"
D = 1/2"

AGENCIES:

DEVELOPER:	ESH DEVELOPMENT, LLC 5671 NORTH ORACLE ROAD, SUITE 1102 TUSCON, AZ 85704 EMERY CHUKLY (520) 742-2114
ENGINEER:	WESTWORKS ENGINEERING 1023 W. COLORADO AVENUE COLORADO SPRINGS, CO 80904 CHAD D. KUZBEK, P.E. (719) 685-1670
EL PASO COUNTY:	DEVELOPMENT SERVICES DEPARTMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520-7959
UTILITIES: (WATER & SANITARY)	STRATMOOR HILLS WATER & SANITATION DISTRICT 1811 B STREET COLORADO SPRINGS, CO 80906 KIRK MEDINA (719) 576-0311
UTILITIES: (GAS)	COLORADO SPRINGS UTILITIES 111 S. CASCADE AVENUE COLORADO SPRINGS, CO 80903 (719) 448-4800
FIRE:	STRATMOOR HILLS FIRE PROTECTION DISTRICT 2160 B STREET COLORADO SPRINGS, CO 80906 DOTTIE BARRETT (719) 576-1200

LEGEND

EXISTING	(E)
PROPOSED	(P)
FUTURE	(F)
BEGIN TRANSITION	BT
END TRANSITION	ET
CURB RETURN	CR
POINT ON CURVE	POC
POINT ON CURB RETURN	POCR
POINT OF REVERSE CURVATURE	PRC
EDGE OF ASPHALT	EOA
POINT OF CURVATURE	PC
POINT OF TANGENCY	PT
BOUNDARY	
RIGHT-OF-WAY	
LOT LINE	
EASEMENT	
(E) STORM SEWER	
(P) STORM SEWER, INLET, MH	

SHEET INDEX:

REV.	DESCRIPTION	DATE

811 Know what's below. Call 72 hours before you dig.
For more details visit: www.call811.com

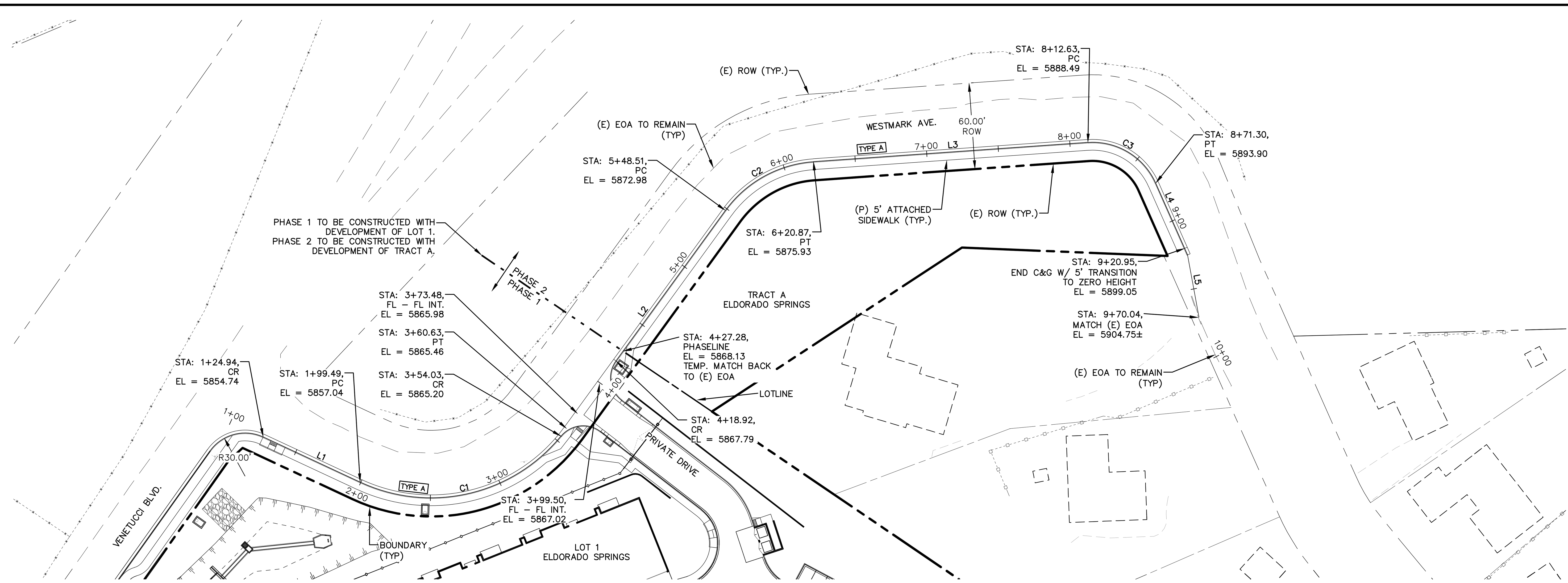
PREPARED FOR:
ESH DEVELOPMENT, LLC
5671 NORTH ORACLE ROAD
SUITE #1102
TUSCON, AZ 85704
(520) 742-2114

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF WESTWORKS ENGINEERING
CHAD D. KUZBEK, COLORADO PE #35751 DATE

NOT FOR CONSTRUCTION

WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS	DRAWN BY:	CDK
	SCALE: 1"=200'	DATE: 06/27/19
STREET IMPROVEMENT PLANS TITLE SHEET	JOB NUMBER 91807	SHEET SI1 OF 5



WESTMARK AVENUE
STA: 1+00 ~ 10+00

(URBAN LOCAL ROADWAY)
DESIGN SPEED: 25

LINE TABLE – FL		
LINE	BEARING	DISTANCE
L1	S24°57'21"W	74.55
L2	S53°57'15"E	187.88
L3	S04°00'16"E	191.76
L4	S66°02'05"W	54.65
L5	S79°32'48"W	44.09

CURVE TABLE – FL			
CURVE	DELTA	RADIUS	LENGTH
C1	78°54'36"	117.00	161.14
C2	49°56'59"	83.00	72.36
C3	70°02'21"	48.00	58.68

N

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REV.	DESCRIPTION	DATE

811 Know what's below. Call 72 hours before you dig.
For more details visit: www.call811.com

DESIGN DATA:
SIDEWALKS: WIDTH: ______
LOCATION: ☐ Attached ☐ Detached
DESIGN SPEED ______
CURB TYPE: ☐1 ☐2 ☐3 ☐4 ☐5
ROW WIDTH: ______ FL–FL ______
STREET TYPE: ______

PAVEMENT:
TYPE: HMA ☐ BASE ☐
THICKNESS: ______
COMPOSITE SECTION:
HMA ______ BASE ______
SUBGRADE STABILIZATION:
CHEM. ☐ MECH. ☐
TYPE ______ THICKNESS ______

PREPARED FOR:
ESH DEVELOPMENT, LLC
5671 NORTH ORACLE ROAD
SUITE #1102
TUSCON, AZ 85704
(520) 742–2114

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF WESTW
NOT FOR CONSTRUCTION
CHAD D. KOZBER, COLORADO PE #... DATE

WESTWORKS™ ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

STREET IMPROVEMENT PLANS
WESTMARK AVENUE

DESIGNED BY: MGP	DRAWN BY: CDK
SCALE: 1"=50'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	SI2 OF 5

VENETUCCI BOULEVARD
STA: 1+00 ~ 15+00

811 Know what's below. Call 72 hours before you dig.
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LINE TABLE – FL		
LINE	BEARING	DISTANCE
L6	S53°18'36"E	680.61
L7	S54°31'34"E	242.31

CURVE TABLE – FL			
CURVE	DELTA	RADIUS	LENGTH
C4	1°05'26"	24069.82	458.14

HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REV.	DESCRIPTION	DATE

REVIEW:
STREET DESIGN FOR CITY ENGINEERING
UTILITY GRADE REVIEW ______ DATE: ____
CURB & GUTTER REVIEW ______ DATE: ____
FINAL REVIEW ______ DATE: ____
DRAINAGE DESIGN ______ DATE: ____
THIS IS FILED IN ACCORDANCE WITH SECTION 7.7.906 (DRAINAGE ORDINANCE) OF THE CODE OF COLORADO SPRINGS 2001, AS AMENDED.

DESIGN DATA:
SIDEWALKS: WIDTH: ____ LOCATION: ☐ Attached ☐ Detached
DESIGN SPEED ____
CURB TYPE: ☐1 ☐2 ☐3 ☐4 ☐5
ROW WIDTH: ____ FL-FL ____
STREET TYPE: ____
PAVEMENT: TYPE: HMA ☐ BASE ☐ THICKNESS: ____
COMPOSITE SECTION: HMA ____ BASE ____
SUBGRADE STABILIZATION: CHEM. ☐ MECH. ☐ TYPE ____ THICKNESS ____

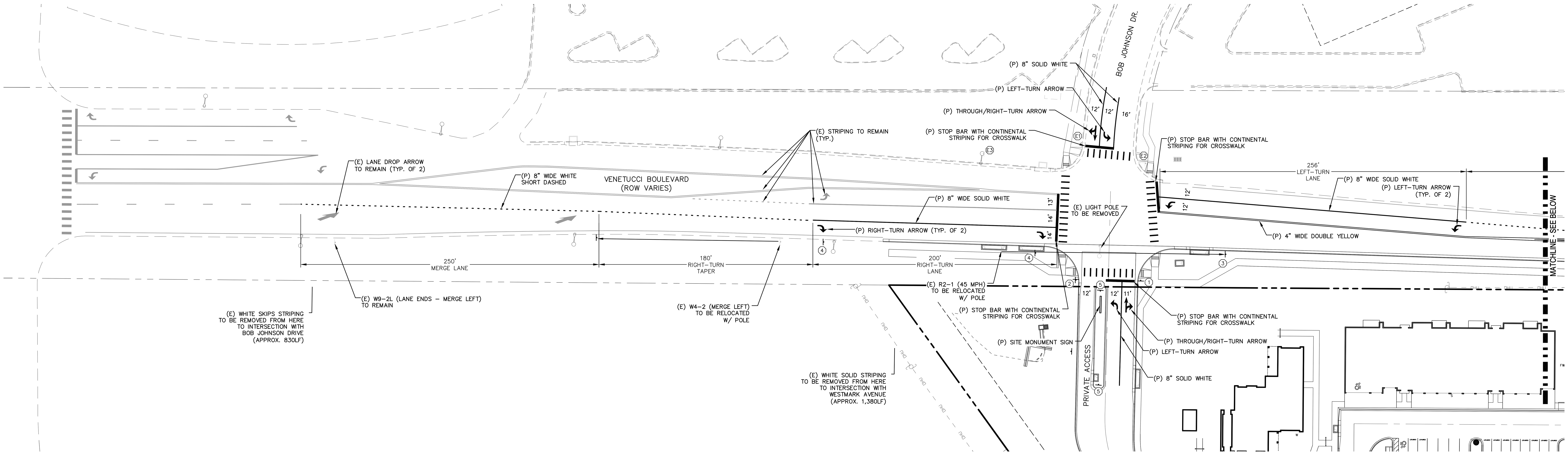
PREPARED FOR:
ESH DEVELOPMENT, LLC
5671 NORTH ORACLE ROAD SUITE #1102 TUSCON, AZ 85704 (520) 742-2114

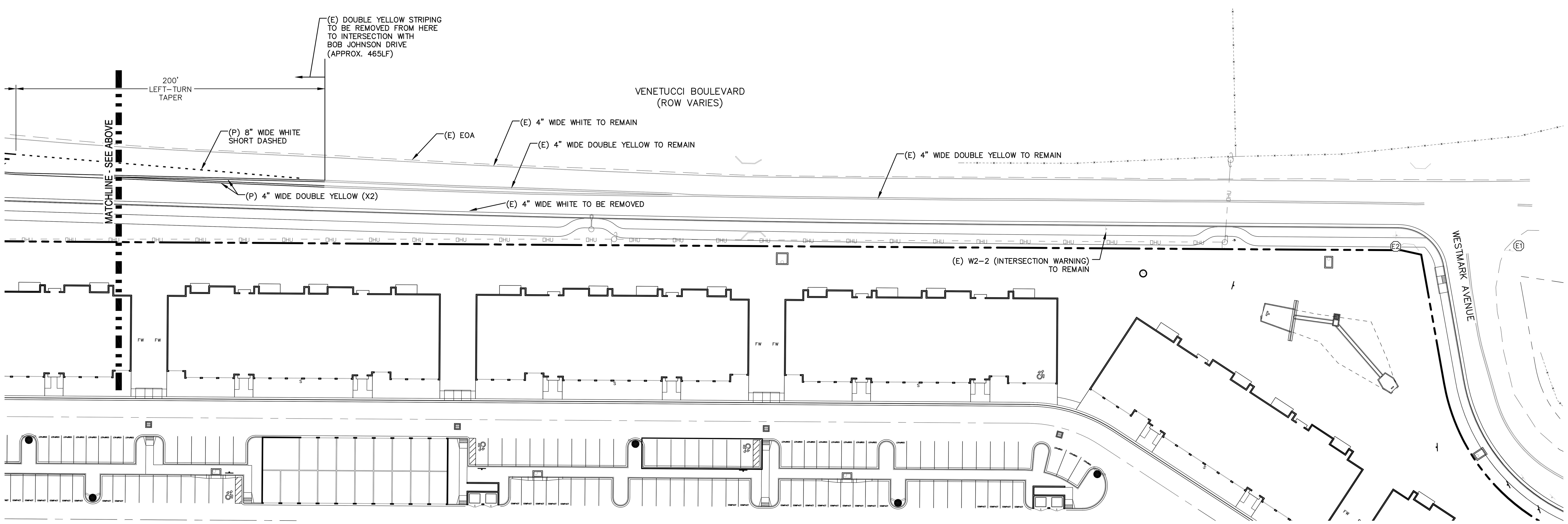
PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF WESTWORKS ENGINEERING
NOT FOR CONSTRUCTION
CHAD [illegible], COLORADO PE [illegible] DATE

WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS
STREET IMPROVEMENT PLANS VENETUCCI BOULEVARD

DESIGNED BY: MGP | DRAWN BY: CDK
SCALE: 1"=50' | DATE: 06/27/19
JOB NUMBER: 91807 | SHEET: SI3 OF 5





SCALE: 1" = 40'

LEGEND

EXISTING	(E)
PROPOSED	(P)
BOUNDARY	
RIGHT-OF-WAY	
LOT LINE	
(E) SIGN	
(P) SIGN	
(E) R1-1 (STOP SIGN - 30"x30")	E1
(P) R1-1 (STOP SIGN - 30"x30")	1
(E) D-3 (STREET NAME)	E2
(P) D-3 (STREET NAME) [6" HEIGHT; 4" LETTERING]	2
(E) SPEED LIMIT SIGN (40 MPH)	E3
(P) SPEED LIMIT SIGN (45 MPH)	3
(P) R3-7R (RIGHT LANE MUST TURN RIGHT)	4
(P) R4-7R (KEEP RIGHT - MEDIAN)	5

REV.	DESCRIPTION	DATE

Know what's below. Call 72 hours before you dig. For more details visit: www.call811.com

PREPARED FOR:
ESH DEVELOPMENT, LLC
5671 NORTH ORACLE ROAD
SUITE #1102
TUSCON, AZ 85704
(520) 742-2114

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF WESTWORKS ENGINEERING
NOT FOR CONSTRUCTION
CHAD [illegible], COLORADO P.E. [illegible] DATE

WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

SIGNAGE & STRIPING PLAN
VENETUCCI BOULEVARD

DESIGNED BY: CDK	DRAWN BY: CDK
SCALE: 1"=40'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	SI4 OF 5

LEGEND

EXISTING	(E)
PROPOSED	(P)
BOUNDARY	
RIGHT-OF-WAY	
LOT LINE	
(E) SIGN	
(P) SIGN	
(E) R1-1 (STOP SIGN – 30"x30")	E1
(P) R1-1 (STOP SIGN – 30"x30")	1
(E) D-3 (STREET NAME)	E2
(P) D-3 (STREET NAME) [6" HEIGHT; 4" LETTERING]	2
(P) SPEED LIMIT SIGN (25 MPH)	3

REV.	DESCRIPTION	DATE

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PREPARED FOR:
ESH DEVELOPMENT, LLC
5671 NORTH ORACLE ROAD
SUITE #1102
TUSCON, AZ 85704
(520) 742-2114

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF WESTWORKS ENGINEERING
CHAD D. KUZBEK, COLORADO PE #38731 DATE

NOT FOR CONSTRUCTION

WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

SIGNAGE & STRIPING PLAN
WESTMARK AVENUE

DESIGNED BY: CDK	DRAWN BY: CDK
SCALE: 1"=40'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	SI5 OF 5

ELDORADO SPRINGS

STORM SEWER PLAN & PROFILES [PUBLIC & PRIVATE]

EL PAS COUNTY, COLORADO

STANDARD CONSTRUCTION NOTES:

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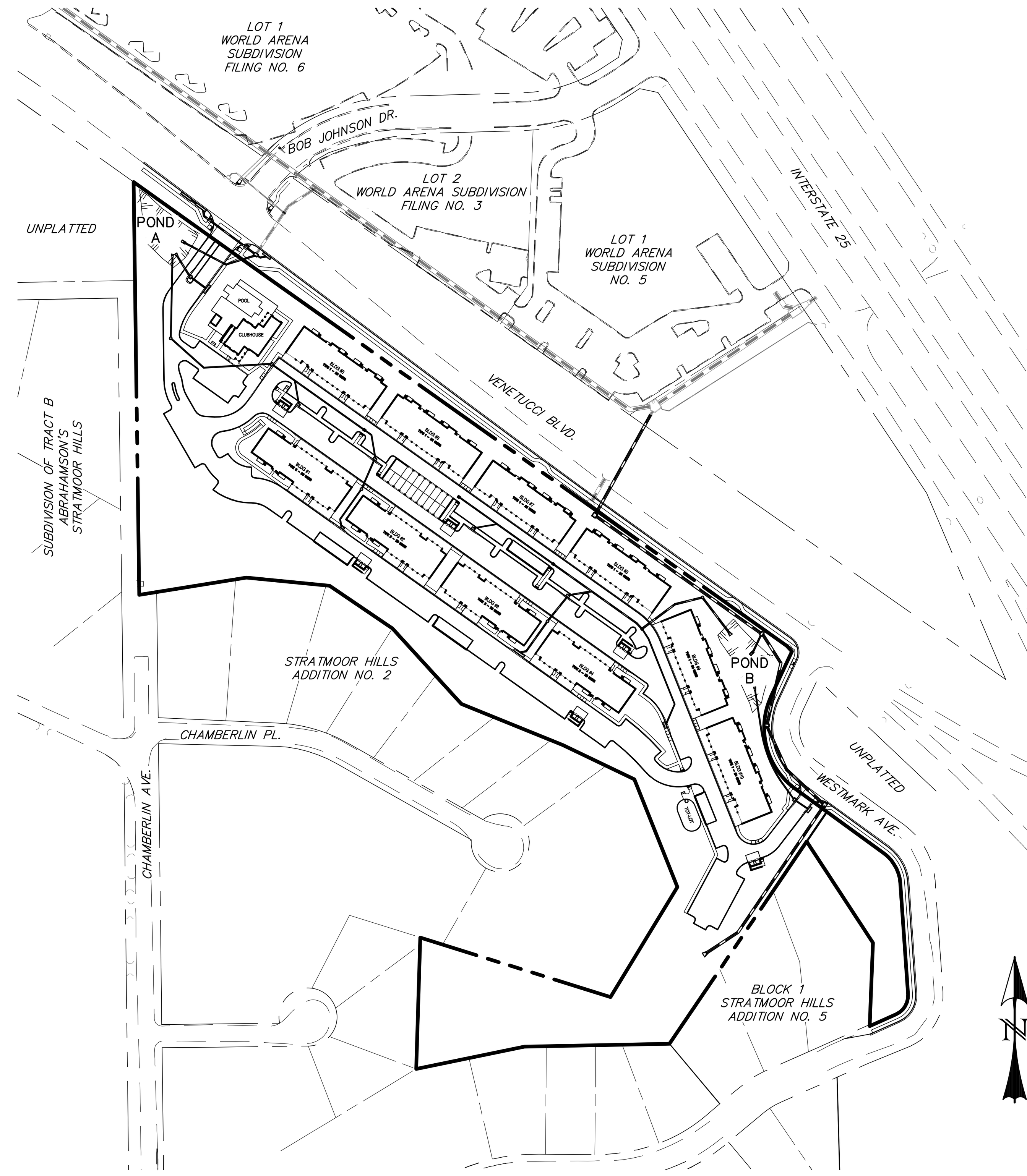
6. CONTRACTOR SHALL SCHEDULE A PRE-CONSTRUCTION MEETING WITH EL PASO COUNTY PLANNING AND COMMUNITY DEVELOPMENT DEPARTMENT (PCD) – INSPECTIONS, PRIOR TO STARTING CONSTRUCTION.
7. IT IS THE CONTRACTOR'S RESPONSIBILITY TO UNDERSTAND THE REQUIREMENTS OF ALL JURISDICTIONAL AGENCIES AND TO OBTAIN ALL REQUIRED PERMITS, INCLUDING BUT NOT LIMITED TO EL PASO COUNTY EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP), REGIONAL BUILDING FLOODPLAIN DEVELOPMENT PERMIT, U.S. ARMY CORPS OF ENGINEERS-ISSUED 401 AND/OR 404 PERMITS, AND COUNTY AND STATE FUGITIVE DUST PERMITS.
8. CONTRACTOR SHALL NOT DEVIATE FROM THE PLANS WITHOUT FIRST OBTAINING WRITTEN APPROVAL FROM THE DESIGN ENGINEER AND PCD. CONTRACTOR SHALL NOTIFY THE DESIGN ENGINEER IMMEDIATELY UPON DISCOVERY OF ANY ERRORS OR INCONSISTENCIES.
9. ALL STORM DRAIN PIPE SHALL BE CLASS III RCP UNLESS OTHERWISE NOTED AND APPROVED BY PCD.
10. CONTRACTOR SHALL COORDINATE GEOTECHNICAL TESTING PER ECM STANDARDS. PAVEMENT DESIGN SHALL BE APPROVED BY EL PASO COUNTY PCD PRIOR TO PLACEMENT OF CURB AND GUTTER AND PAVEMENT.
11. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
12. SIGHT VISIBILITY TRIANGLES AS IDENTIFIED IN THE PLANS SHALL BE PROVIDED AT ALL INTERSECTIONS. OBSTRUCTIONS GREATER THAN 18 INCHES ABOVE FLOWLINE ARE NOT ALLOWED WITHIN SIGHT TRIANGLES.
13. SIGNING AND STRIPING SHALL COMPLY WITH EL PASO COUNTY DPW AND MUTCD CRITERIA.
14. CONTRACTOR SHALL OBTAIN ANY PERMITS REQUIRED BY EL PASO COUNTY DPW, INCLUDING WORK WITHIN THE RIGHT-OF-WAY AND SPECIAL TRANSPORT PERMITS.
15. THE LIMITS OF CONSTRUCTION SHALL REMAIN WITHIN THE PROPERTY LINE UNLESS OTHERWISE NOTED. THE OWNER/DEVELOPER SHALL OBTAIN WRITTEN PERMISSION AND EASEMENTS, WHERE REQUIRED, FROM ADJOINING PROPERTY OWNER(S) PRIOR TO ANY OFF-SITE DISTURBANCE, GRADING, OR CONSTRUCTION.

GRADING NOTES:

1. CONSTRUCTION MAY NOT COMMENCE UNTIL A CONSTRUCTION PERMIT IS OBTAINED FROM DEVELOPMENT SERVICES AND A PRECONSTRUCTION CONFERENCE IS HELD WITH DEVELOPMENT SERVICES INSPECTIONS.
2. STORMWATER DISCHARGES FROM CONSTRUCTION SITES SHALL NOT CAUSE OR THREATEN TO CAUSE POLLUTION, CONTAMINATION, OR DEGRADATION OF STATE WATERS. ALL WORK AND EARTH DISTURBANCE SHALL BE DONE IN A MANNER THAT MINIMIZES POLLUTION OF ANY ON-SITE OR OFF SITE WATERS, INCLUDING WETLANDS.
3. NOTWITHSTANDING ANYTHING DEPICTED IN THESE PLANS IN WORDS OR GRAPHIC REPRESENTATION, ALL DESIGN AND CONSTRUCTION RELATED TO ROADS, STORM DRAINAGE AND EROSION CONTROL SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE MOST RECENT VERSION OF THE RELEVANT ADOPTED EL PASO COUNTY STANDARDS, INCLUDING THE LAND DEVELOPMENT CODE, THE ENGINEERING CRITERIA MANUAL, THE DRAINAGE CRITERIA MANUAL, AND THE DRAINAGE CRITERIA MANUAL VOLUME 2. ANY DEVIATIONS FROM REGULATIONS AND STANDARDS MUST BE REQUESTED, AND APPROVED, IN WRITING.
4. A SEPARATE STORMWATER MANAGEMENT PLAN (SMWP) FOR THIS PROJECT SHALL BE COMPLETED AND AN EROSION AND STORMWATER QUALITY CONTROL PERMIT (ESQCP) ISSUED PRIOR TO COMMENCING CONSTRUCTION. DURING CONSTRUCTION THE SWMP IS THE RESPONSIBILITY OF THE DESIGNATED STORMWATER MANAGER SHALL BE LOCATED ON SITE AT ALL TIMES AND SHALL BE KEPT UP TO DATE WITH WORK PROGRESS AND CHANGES IN THE FIELD.
5. ONCE THE ESQCP HAS BEEN ISSUED, THE CONTRACTOR MAY INSTALL THE INITIAL STAGE EROSION AND SEDIMENT CONTROL BMPS AS INDICATED ON THE GEC. A PRECONSTRUCTION MEETING BETWEEN THE CONTRACTOR, ENGINEER, AND EL PASO COUNTY WILL BE HELD PRIOR TO ANY CONSTRUCTION. IT IS THE RESPONSIBILITY OF THE APPLICANT TO COORDINATE THE MEETING TIME AND PLACE WITH COUNTY DSD INSPECTIONS STAFF.
6. SOIL EROSION CONTROL MEASURES FOR ALL SLOPES, CHANNELS, DITCHES, OR ANY DISTURBED LAND AREA SHALL BE COMPLETED WITHIN 21 CALENDAR DAYS AFTER FINAL GRADING, OR FINAL EARTH DISTURBANCE, HAS BEEN COMPLETED. DISTURBED AREAS AND STOCKPILES WHICH ARE NOT AT FINAL GRADE BUT WILL REMAIN DORMANT FOR LONGER THAN 30 DAYS SHALL ALSO BE MULCHED WITHIN 21 DAYS AFTER INTERIM GRADING. AN AREA THAT IS GOING TO REMAIN IN AN INTERIM STATE FOR MORE THAN 60 DAYS SHALL ALSO BE SEEDED. ALL TEMPORARY SOIL EROSION CONTROL MEASURES AND BMPS SHALL BE MAINTAINED UNTIL PERMANENT SOIL EROSION CONTROL MEASURES ARE IMPLEMENTED AND ESTABLISHED.
7. TEMPORARY SOIL EROSION CONTROL FACILITIES SHALL BE REMOVED AND EARTH DISTURBANCE AREAS GRADED AND STABILIZED WITH PERMANENT SOIL EROSION CONTROL MEASURES PURSUANT TO STANDARDS AND SPECIFICATION PRESCRIBED IN THE DCM VOLUME II AND THE ENGINEERING CRITERIA MANUAL (ECM) APPENDIX I.
8. ALL PERSONS ENGAGED IN EARTH DISTURBANCE SHALL IMPLEMENT AND MAINTAIN ACCEPTABLE SOIL EROSION AND SEDIMENT CONTROL MEASURES INCLUDING BMPS IN CONFORMANCE WITH THE EROSION CONTROL TECHNICAL STANDARDS OF THE DRAINAGE CRITERIA MANUAL (DCM) VOLUME II AND IN ACCORDANCE WITH THE STORMWATER MANAGEMENT PLAN (SWMP).
9. ALL TEMPORARY EROSION CONTROL FACILITIES INCLUDING BMPS AND ALL PERMANENT FACILITIES INTENDED TO CONTROL EROSION OF ANY EARTH DISTURBANCE OPERATIONS, SHALL BE INSTALLED AS DEFINED IN THE APPROVED PLANS, THE SWMP AND THE DCM VOLUME II AND MAINTAINED THROUGHOUT THE DURATION OF THE EARTH DISTURBANCE OPERATION.
10. ANY EARTH DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER SO AS TO EFFECTIVELY REDUCE ACCELERATED SOIL EROSION AND RESULTING SEDIMENTATION. ALL DISTURBANCES SHALL BE DESIGNED, CONSTRUCTED, AND COMPLETED SO THAT THE EXPOSED AREA OF ANY DISTURBED LAND SHALL BE LIMITED TO THE SHORTEST PRACTICAL PERIOD OF TIME.
11. ANY TEMPORARY OR PERMANENT FACILITY DESIGNED AND CONSTRUCTED FOR THE CONVEYANCE OF STORMWATER AROUND, THROUGH, OR FROM THE EARTH DISTURBANCE AREA SHALL BE DESIGNED TO LIMIT THE DISCHARGE TO A NON-EROSIVE VELOCITY.
12. CONCRETE WASH WATER SHALL BE CONTAINED AND DISPOSED OF IN ACCORDANCE WITH THE SWMP. NO WASH WATER SHALL BE DISCHARGED TO OR ALLOWED TO RUNOFF TO STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
13. EROSION CONTROL BLANKETING SHALL BE USED ON SLOPES STEEPER THAN 3:1.
14. BUILDING, CONSTRUCTION, EXCAVATION, OR OTHER WASTE MATERIALS SHALL NOT BE TEMPORARILY PLACED OR STORED IN THE STREET, ALLEY, OR OTHER PUBLIC WAY, UNLESS IN ACCORDANCE WITH AN APPROVED TRAFFIC CONTROL PLAN. BMP'S MAY BE REQUIRED BY EL PASO COUNTY ENGINEERING IF DEEMED NECESSARY, BASED ON SPECIFIC CONDITIONS AND CIRCUMSTANCES.
15. VEHICLE TRACKING OF SOILS AND CONSTRUCTION DEBRIS OFF-SITE SHALL BE MINIMIZED. MATERIALS TRACKED OFFSITE SHALL BE CLEANED UP AND PROPERLY DISPOSED OF IMMEDIATELY.
16. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL WASTES FROM THE CONSTRUCTION SITE FOR DISPOSAL IN ACCORDANCE WITH LOCAL AND STATE REGULATORY REQUIREMENTS. NO CONSTRUCTION DEBRIS, TREE SLASH, BUILDING MATERIAL WASTES OR UNUSED BUILDING MATERIALS SHALL BE BURIED, DUMPED, OR DISCHARGED AT THE SITE.
17. THE OWNER, SITE DEVELOPER, CONTRACTOR, AND/OR THEIR AUTHORIZED AGENTS SHALL BE RESPONSIBLE FOR THE REMOVAL OF ALL CONSTRUCTION DEBRIS, DIRT, TRASH, ROCK, SEDIMENT, AND SAND THAT MAY ACCUMULATE IN THE STORM SEWER OR OTHER DRAINAGE CONVEYANCE SYSTEM AND STORMWATER APPURTENANCES AS A RESULT OF SITE DEVELOPMENT.
18. THE QUANTITY OF MATERIALS STORED ON THE PROJECT SITE SHALL BE LIMITED, AS MUCH AS PRACTICAL, TO THAT QUANTITY REQUIRED TO PERFORM THE WORK IN AN ORDERLY SEQUENCE. ALL MATERIALS STORED ON-SITE SHALL BE STORED IN A NEAT, ORDERLY MANNER, IN THEIR ORIGINAL CONTAINERS, WITH ORIGINAL MANUFACTURER'S LABELS.
19. NO CHEMICALS ARE TO BE USED BY THE CONTRACTOR, WHICH HAVE THE POTENTIAL TO BE RELEASED IN STORMWATER UNLESS PERMISSION FOR THE USE OF A SPECIFIC CHEMICAL IS GRANTED IN WRITING BY THE ECM ADMINISTRATOR. IN GRANTING THE USE OF SUCH CHEMICALS, SPECIAL CONDITIONS AND MONITORING MAY BE REQUIRED.
20. BULK STORAGE STRUCTURES FOR PETROLEUM PRODUCTS AND OTHER CHEMICALS SHALL HAVE ADEQUATE PROTECTION SO AS TO CONTAIN ALL SPILLS AND PREVENT ANY SPILLED MATERIAL FROM ENTERING STATE WATERS, INCLUDING ANY SURFACE OR SUBSURFACE STORM DRAINAGE SYSTEM OR FACILITIES.
21. NO PERSON SHALL CAUSE THE IMPEDIMENT OF STORMWATER FLOW IN THE FLOW LINE OF THE CURB AND GUTTER OR IN THE DITCHLINE.
22. INDIVIDUALS SHALL COMPLY WITH THE "COLORADO WATER QUALITY CONTROL ACT" (TITLE 25, ARTICLE 8, CRS), AND THE "CLEAN WATER ACT" (33 USC 1344), IN ADDITION TO THE REQUIREMENTS INCLUDED IN THE DCM VOLUME II AND THE ECM APPENDIX I. ALL APPROPRIATE PERMITS MUST BE OBTAINED BY THE CONTRACTOR PRIOR TO CONSTRUCTION (NPDES, FLOODPLAIN, 404, FUGITIVE DUST, ETC.). IN THE EVENT OF CONFLICTS BETWEEN THESE REQUIREMENTS AND LAWS, RULES, OR REGULATIONS OF OTHER FEDERAL, STATE, OR COUNTY AGENCIES, THE MORE RESTRICTIVE LAWS, RULES, OR REGULATIONS SHALL APPLY.
23. ALL CONSTRUCTION TRAFFIC MUST ENTER/EXIT THE SITE AT APPROVED CONSTRUCTION ACCESS POINTS.
24. PRIOR TO ACTUAL CONSTRUCTION THE PERMITTEE SHALL VERIFY THE LOCATION OF EXISTING UTILITIES.
25. A WATER SOURCE SHALL BE AVAILABLE ON SITE DURING EARTHWORK OPERATIONS AND UTILIZED AS REQUIRED TO MINIMIZE DUST FROM EARTHWORK EQUIPMENT AND WIND.
26. THE SOILS REPORT FOR THIS SITE HAS BEEN PREPARED BY **ENTECH ENGINEERING** AND SHALL BE CONSIDERED A PART OF THESE PLANS.
27. AT LEAST TEN DAYS PRIOR TO THE ANTICIPATED START OF CONSTRUCTION, FOR PROJECTS THAT WILL DISTURB 1 ACRE OR MORE, THE OWNER OR OPERATOR OF CONSTRUCTION ACTIVITY SHALL SUBMIT A PERMIT APPLICATION FOR STORMWATER DISCHARGE TO THE COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT, WATER QUALITY DIVISION. THE APPLICATION CONTAINS CERTIFICATION OF COMPLETION OF A STORMWATER MANAGEMENT PLAN (SWMP), OF WHICH THIS GRADING AND EROSION CONTROL PLAN MAY BE A PART. FOR INFORMATION OR APPLICATION MATERIALS CONTACT:

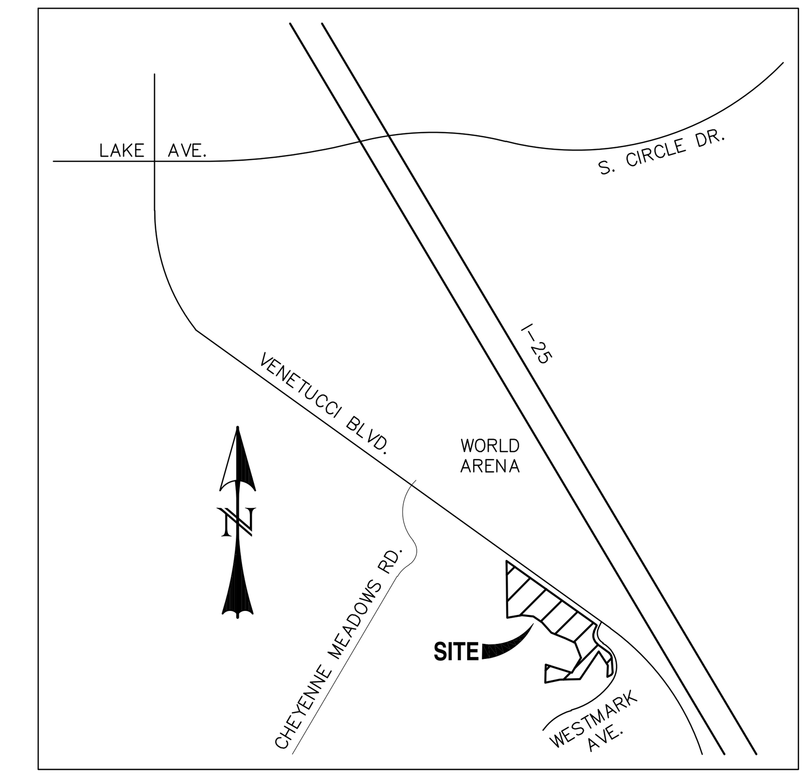
   COLORADO DEPARTMENT OF PUBLIC HEALTH AND ENVIRONMENT
   WATER QUALITY CONTROL DIVISION
   WQCD – PERMITS
   4300 CHERRY CREEK DRIVE SOUTH
   DENVER, CO 80246-1530
   ATTN: PERMITS UNIT



SITE MAP
SCALE: 1" = 200'

AGENCIES:

DEVELOPER:	ESH DEVELOPMENT, LLC 5671 NORTH ORACLE ROAD, SUITE 1102 TUSCON, AZ 85704 EMERY CHUKLY (520) 742-2114
ENGINEER:	WESTWORKS ENGINEERING 1023 W. COLORADO AVENUE COLORADO SPRINGS, CO 80904 CHAD D. KUZBEK, P.E. (719) 685-1670
EL PASO COUNTY:	DEVELOPMENT SERVICES DEPARTMENT 2880 INTERNATIONAL CIRCLE, SUITE 110 COLORADO SPRINGS, CO 80910 (719) 520-7959
UTILITIES: (WATER & SANITARY)	STRATMOOR HILLS WATER & SANITATION DISTRICT 1811 B STREET COLORADO SPRINGS, CO 80906 KIRK MEDINA (719) 576-0311
UTILITIES: (GAS)	COLORADO SPRINGS UTILITIES 111 S. CASCADE AVENUE COLORADO SPRINGS, CO 80903 (719) 448-4800
FIRE:	STRATMOOR HILLS FIRE PROTECTION DISTRICT 2160 B STREET COLORADO SPRINGS, CO 80906 DOTTIE BARRETT (719) 576-1200



VICINITY MAP
SCALE: N.T.S.

CONSTRUCTION PLANS AND SPECIFICATIONS ENGINEERS STATEMENT:

THESE DETAILED PLANS AND SPECIFICATIONS WERE PREPARED UNDER MY DIRECTION AND SUPERVISION. SAID DETAILED PLANS AND SPECIFICATIONS HAVE BEEN PREPARED ACCORDING TO THE CRITERIA ESTABLISHED BY THE CITY/COUNTY FOR DETAILED DRAINAGE PLANS AND SPECIFICATIONS, AND SAID DETAILED PLANS AND SPECIFICATIONS ARE IN CONFORMITY WITH THE MASTER PLAN OF THE DRAINAGE BASIN. SAID DETAILED PLANS AND SPECIFICATIONS MEET THE PURPOSES WHICH THE PARTICULAR DRAINAGE FACILITY(S) IS DESIGNED. I ACCEPT RESPONSIBILITY FOR ANY LIABILITY CAUSED BY ANY NEGLIGENT ACTS, ERROR OR OMISSIONS ON MY PART IN PREPARATION OF THE DETAILED PLANS AND SPECIFICATIONS.

CHAD D. KUZBEK, COLORADO PE #35751

EL PASO COUNTY (WESTMARK AVENUE ONLY):

COUNTY PLAN REVIEW IS PROVIDED ONLY FOR GENERAL CONFORMANCE WITH COUNTY DESIGN CRITERIA. THE COUNTY IS NOT RESPONSIBLE FOR THE ACCURACY AND ADEQUACY OF THE DESIGN, DIMENSIONS, AND/OR ELEVATIONS WHICH SHALL BE CONFIRMED AT THE JOB SITE. THE COUNTY THROUGH THE APPROVAL OF THIS DOCUMENT ASSUMES NO RESPONSIBILITY FOR COMPLETENESS AND/OR ACCURACY OF THIS DOCUMENT.

FILED IN ACCORDANCE WITH THE REQUIREMENTS OF THE EL PASO COUNTY LAND DEVELOPMENT CODE, DRAINAGE CRITERIA, AND ENGINEERING CRITERIA MANUAL AS AMENDED.

JENNIFER IRVINE, P.E.
COUNTY ENGINEER/ECM ADMINISTRATOR

OWNER STATEMENT:

THE OWNER WILL COMPLY WITH THE REQUIREMENTS OF THE STORM SEWER PLANS.

OWNER NAME:

GENERAL NOTES:

1. ALL PAVING AND CURB & GUTTER SHALL BE CONSTRUCTED SO AS NOT TO OBSTRUCT THE DRAINAGE PATHS. GRADES SHALL BE MAINTAINED AS SHOWN IN THESE PLANS FOR THE DRAINAGE PATHS. IF THIS CANNOT BE ACCOMPLISHED, THEN THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY FOR CORRECTION.
2. POSITIVE DRAINAGE AWAY FROM THE BUILDING SHALL BE MAINTAINED DURING AND AFTER SITE CONSTRUCTION. SWALES SHALL BE CONSTRUCTED AROUND BUILDINGS TO DIRECT DRAINAGE AWAY FROM STRUCTURES.
3. SITE CONSTRUCTION INCLUDING PAVING AND CURB & GUTTER INSTALLATION SHALL MAINTAIN POSITIVE DRAINAGE AS SHOWN ON THIS PLAN. STANDING WATER OR PONDING ANYWHERE ON THE SITE IS UNACCEPTABLE.
4. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE AND LOCATION OF ALL UNDERGROUND UTILITIES ALONG THE ROUTE OF THE WORK. THE OMISSION FROM OR THE INCLUSION OF UTILITY LOCATIONS ON THE PLANS IS NOT TO BE CONSIDERED AS THE NONEXISTENCE OF OR A DEFINITE LOCATION OF EXISTING UNDERGROUND UTILITIES.

BENCHMARKS:

1. THE MOST NORTHERLY CORNER OF THE SITE MONUMENTED BY A 1" YELLOW PLASTIC CAP STAMPED "23890."
   EL = 5865.58
2. THE MOST SOUTHERLY CORNER ALONG US HIGHWAY 85-87 BEING MONUMENTED BY A 1-1/2" ALUMINUM SURVEYORS CAP STAMPED "CCES LLC PLS 30118" LOCATED AT THE WESTERLY CORNER OF THE INTERSECTION OF WESTMARK AVENUE AND US HIGHWAY 85-87.
   EL = 5854.18

BASIS OF BEARING:

THE WEST LINE OF THE SOUTHWEST QUARTER OF THE SOUTHWEST QUARTER OF SECTION 33, TOWNSHIP 14 SOUTH, RANGE 66 WEST OF THE 6TH P.M. BEING MONUMENTED AT THE NORTH END BY A 2-1/2" ALUMINUM SURVEYORS CAP WITH APPROPRIATE MARKINGS AND AT THE SOUTH END BY A 3-1/4" ALUMINUM SURVEYORS CAP WITH APPROPRIATE MARKINGS IS ASSUMED TO BEAR N00°44'35"W, A DISTANCE OF 1320.61 FEET.

LEGEND

EXISTING	(E)
PROPOSED	(P)
CURB AND GUTTER	C&G
EASEMENT	ESMT
BUILDING	BLDG
DRAINAGE	DR
PUBLIC	PUB
PRIVATE	PVT
UNDERGROUND	UG
UTILITY	UT
SANITARY	SAN
SEWER	SWR
WATER	WTR
BOUNDARY	
RIGHT-OF-WAY	
LOT LINE	
EASEMENT	
SETBACK	
(E) SANITARY MAIN, MH	— S — S — S —
(E) WATER MAIN, VALVE, FH	— W — W — W —
(E) UG ELECTRIC	— E — E — E —
(E) FIBER OPTIC	— FO — FO — FO —
(E) GAS MAIN	— G — G — G —
(E) OVERHEAD UTILITY	— OHU — OHU —
(E) UG TELEPHONE	— T — T — T —
(E) STORM SEWER	
(P) SANITARY MAIN, MH	— S — S —
(P) WATER MAIN, VALVE, FH	— W — W —
(P) FIRE SERVICE, VALVE	— F —
(P) STORM SEWER, MH	

SHEET INDEX:

REV.	DESCRIPTION	DATE

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(520) 742-2114

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NOT FOR CONSTRUCTION

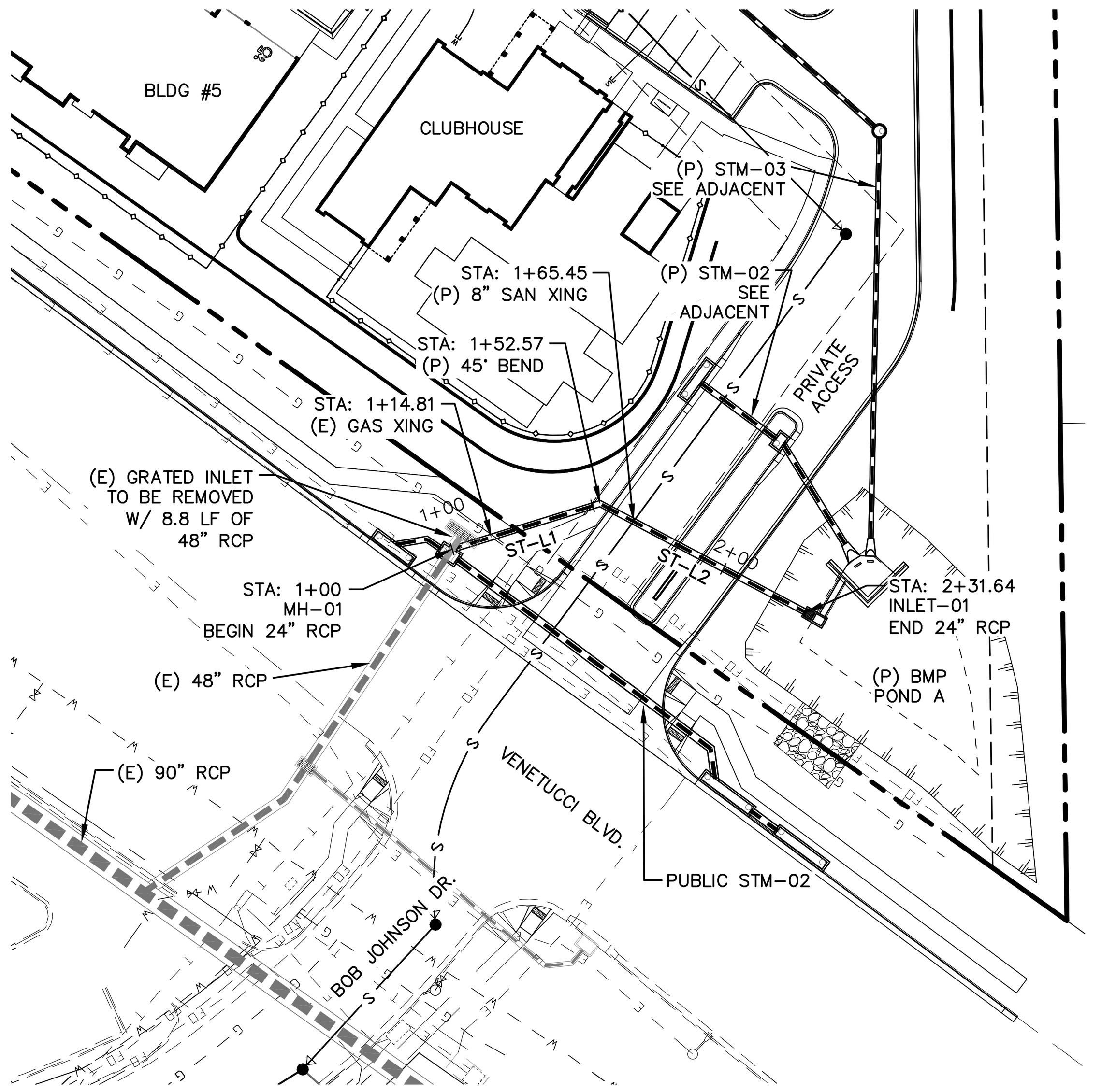
CHAD D. KUZBEK, COLORADO PE #35751 DATE

WESTWORKS™ ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

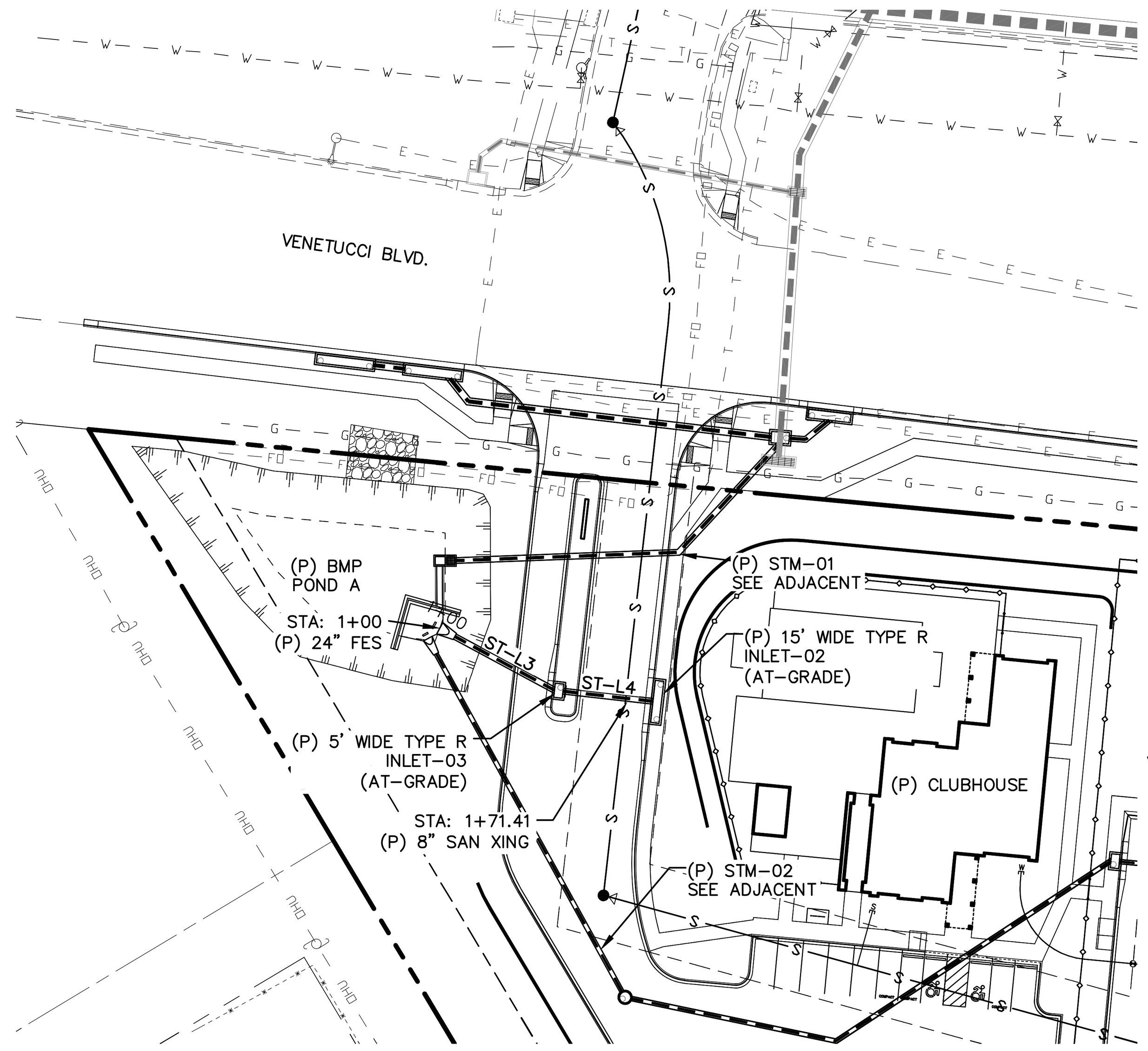
STORM SEWER PLAN & PROFILES
TITLE SHEET

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1"=200'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	ST1 OF 9



STM-01

[PRIVATE]



STM-02

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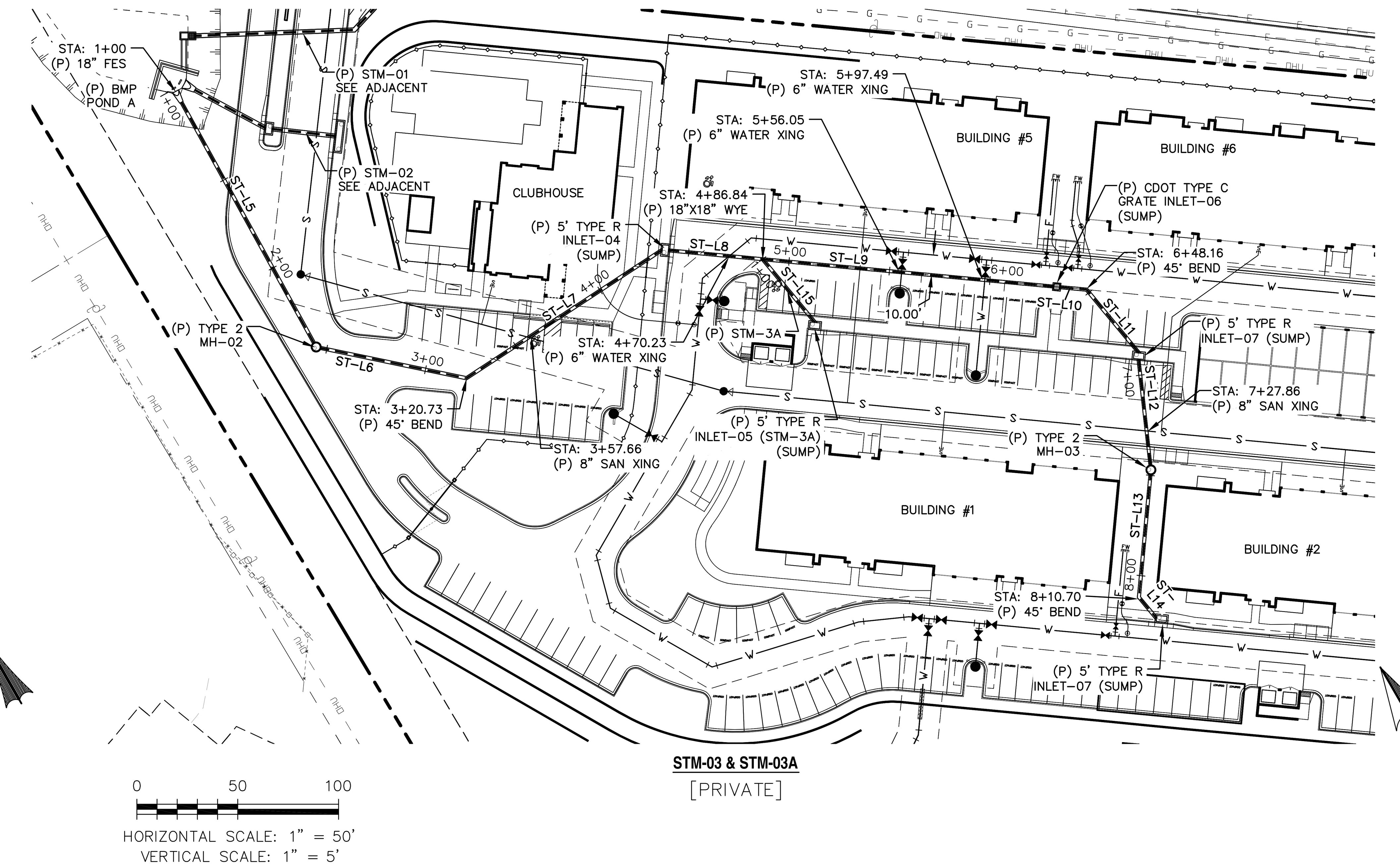
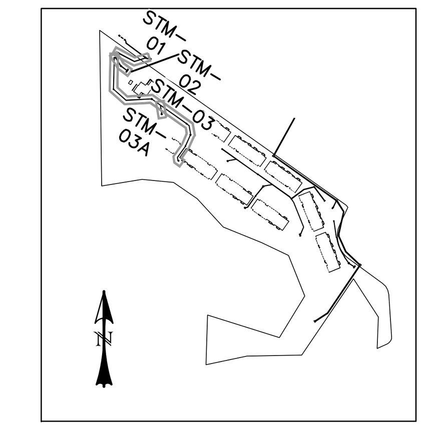


STM-03 & STM-03A

[PRIVATE]



KEY MAP

SCALE: N.T.S.

LINE TABLE – STORM		
LINE	BEARING	DISTANCE
ST-L1	S72°51'55"W	52.57
ST-L2	N62°08'05"W	79.07
ST-L3	S31°40'01"E	39.98
ST-L4	S53°33'06"E	32.00
ST-L5	S01°11'49"W	136.56
ST-L6	S48°15'53"E	74.08
ST-L7	N86°44'07"E	116.15
ST-L8	S54°37'33"E	46.95
ST-L9	S54°37'33"E	144.98
ST-L10	S54°37'33"E	13.43
ST-L11	S09°37'33"E	40.77
ST-L12	S23°36'17"W	53.33
ST-L13	S35°22'27"W	61.43
ST-L14	S09°37'33"E	13.68
ST-L15	S09°37'33"E	40.77

REV.	DESCRIPTION	DATE

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NOT FOR CONSTRUCTION

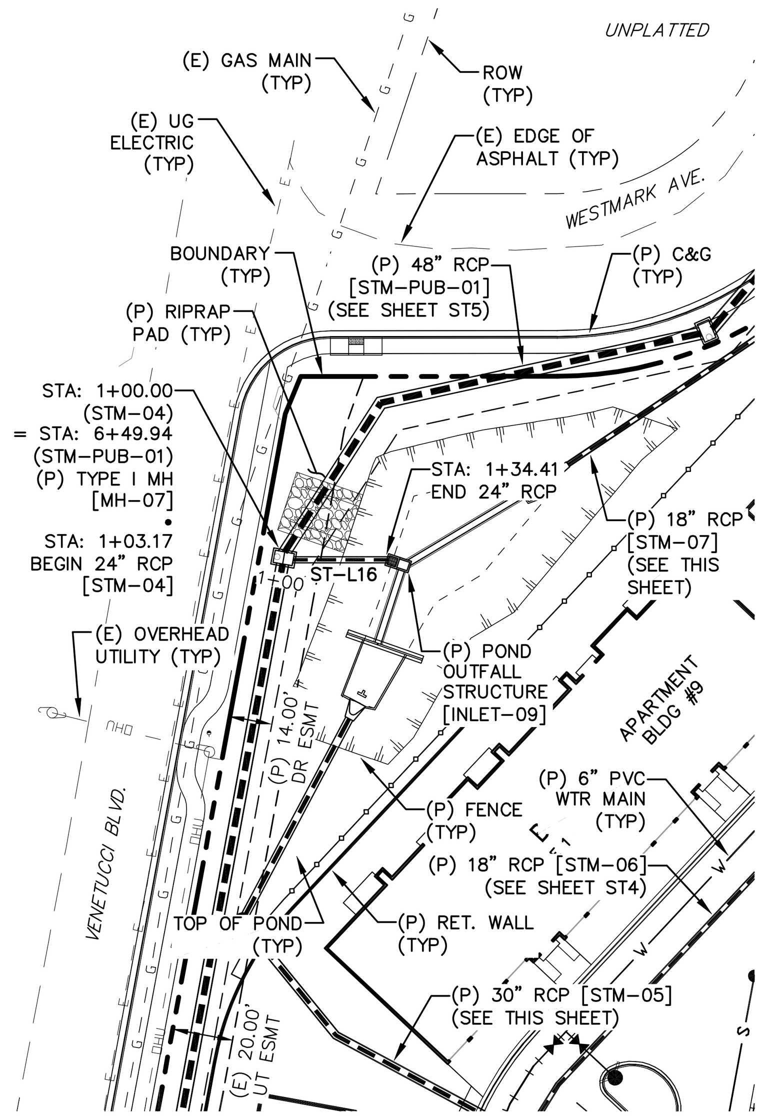
CHAD [illegible] COLORADO PE [illegible] DATE

WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

STORM SEWER PLAN & PROFILES
STM-01, STM-02, STM-03, & STM-03A

DESIGNED BY: MGP	DRAWN BY: CDK
SCALE: 1"=50'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	ST2 OF 9



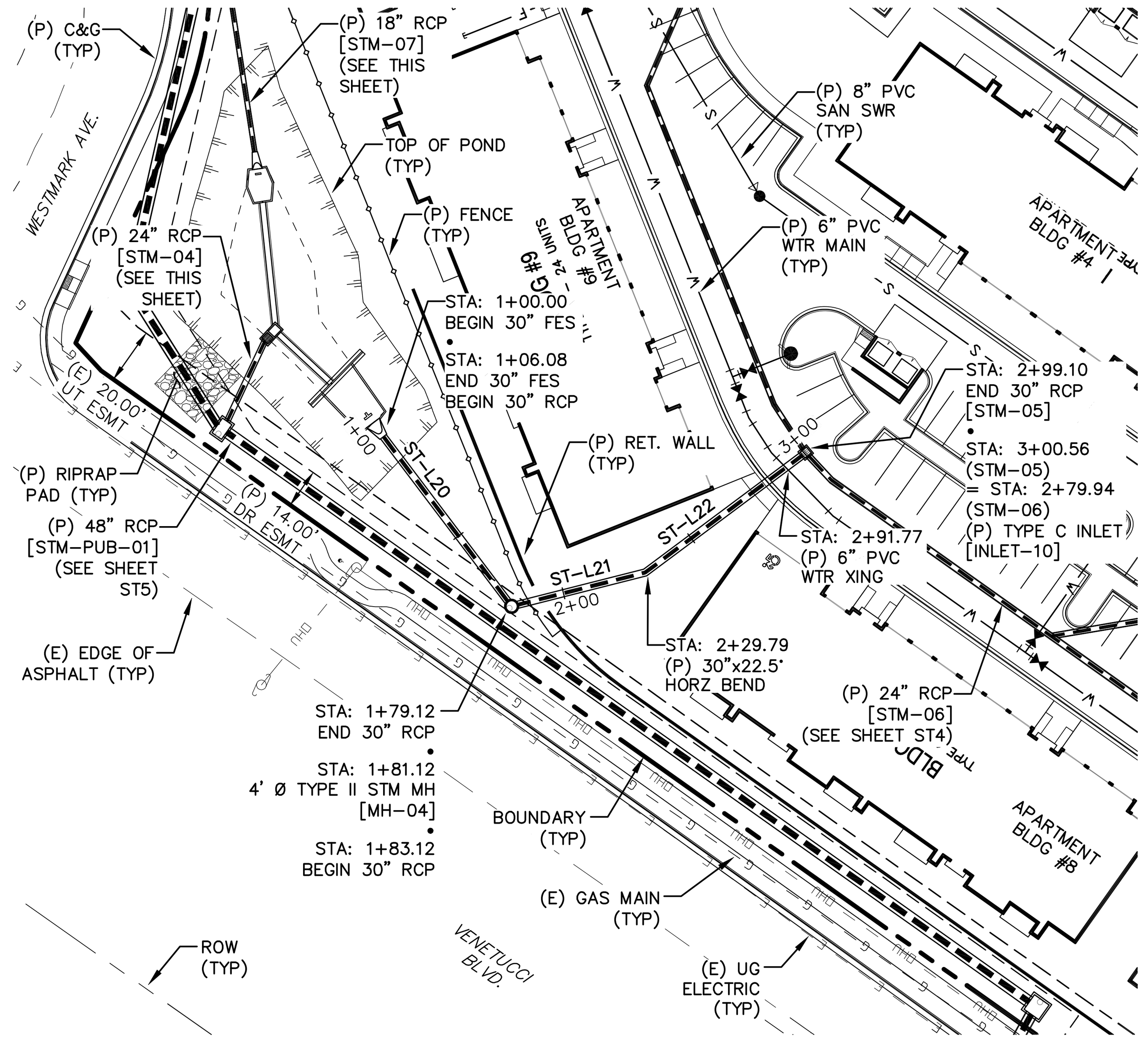
STM-04 [PVT]
STA: 1+00 ~ 1+50

LINE TABLE – STORM		
LINE	BEARING	DISTANCE
ST-L16	S25°06'26"W	31.24
ST-L17	S08°51'19"E	72.46
ST-L18	S35°42'43"E	32.28
ST-L19	S55°50'13"E	27.39
ST-L20	N37°05'23"W	73.04
ST-L21	S75°48'15"W	46.66
ST-L22	S53°18'15"W	69.31

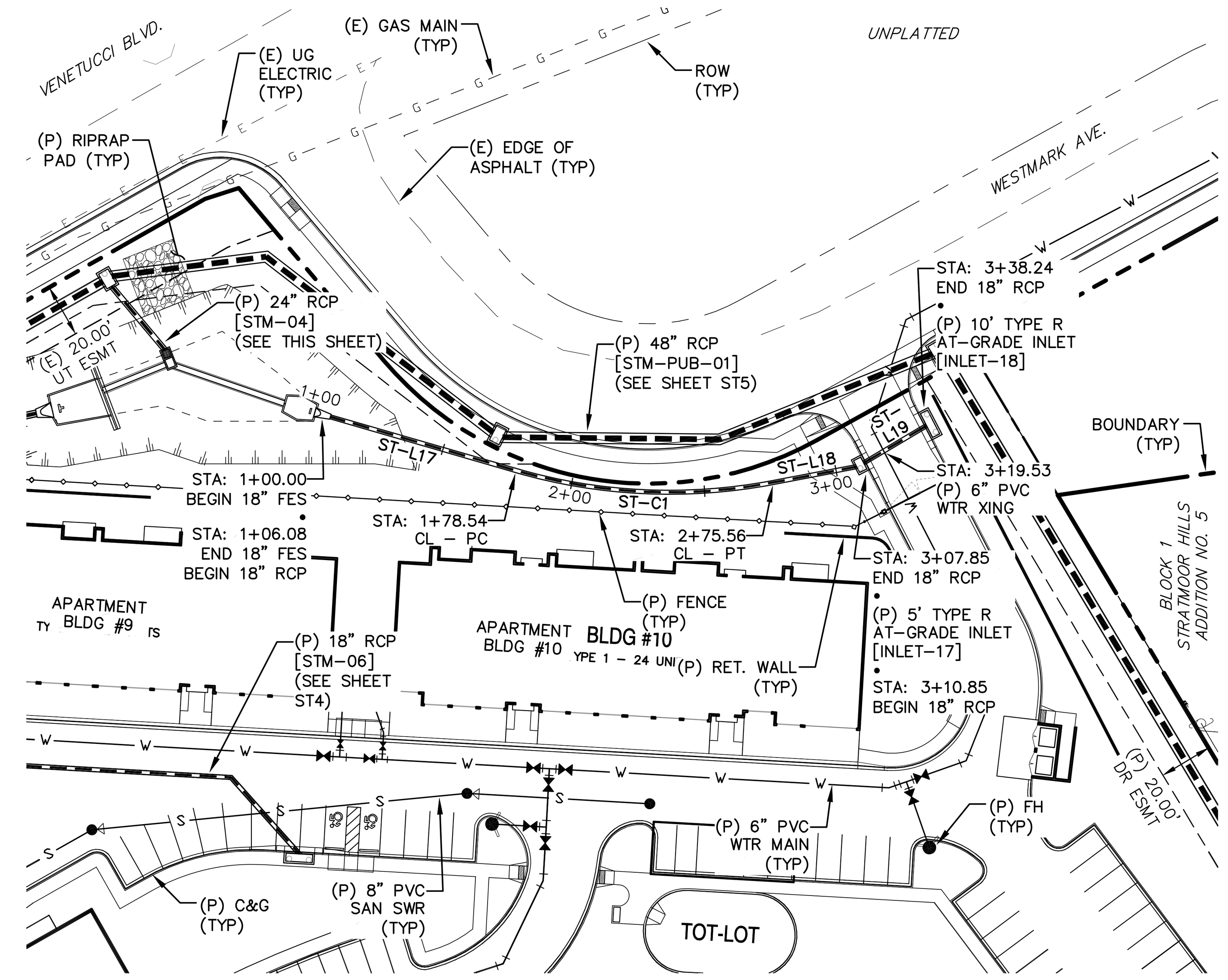
CURVE TABLE – STORM			
CURVE	DELTA	RADIUS	LENGTH
ST-C1	26°51'23"	207.00	97.03

0 50 100

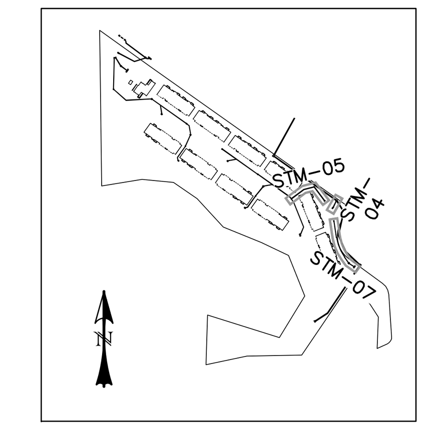
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



STM-05 [PVT]
STA: 1+00 ~ 3+25



STM-07 [PVT]
STA: 1+00 ~ 3+50



KEY MAP
SCALE: N.T.S.

REV.	DESCRIPTION	DATE

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CHAD ... COLORADO P.E. ... DATE

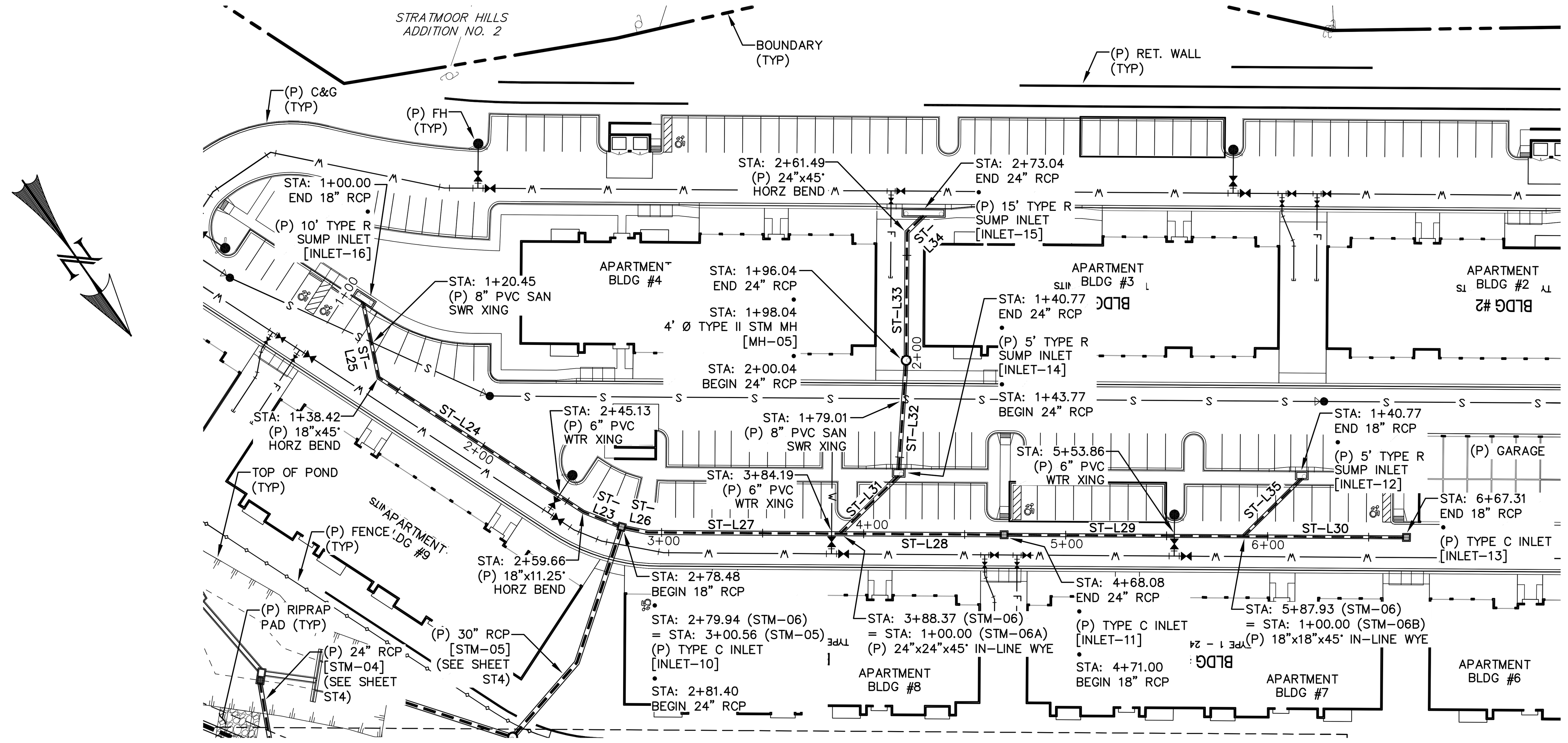
NOT FOR CONSTRUCTION

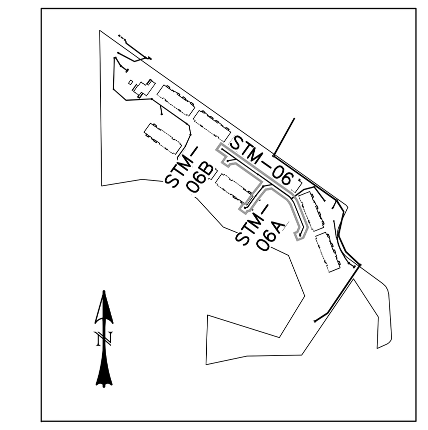
WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

STORM SEWER PLAN & PROFILES
STM-04, STM-05, & STM-07

DESIGNED BY:	MGP	DRAWN BY:	MGP
SCALE:	1"=50'	DATE:	06/27/19
JOB NUMBER		SHEET	
91807		ST3 OF 9	





KEY MAP
SCALE: N.T.S.

LINE TABLE – STORM		
LINE	BEARING	DISTANCE
ST–L23	S33°01'15"E	18.82
ST–L24	S21°46'15"E	121.24
ST–L25	S23°13'45"W	38.42
ST–L26	N43°22'33"W	11.86
ST–L27	N54°37'33"W	95.11
ST–L28	N54°37'33"W	79.71
ST–L29	N54°37'33"W	116.93
ST–L30	N54°37'33"W	79.38
ST–L31	S80°22'27"W	40.77
ST–L32	S38°53'49"W	52.27
ST–L33	S35°22'27"W	61.44
ST–L34	S80°22'27"W	11.55
ST–L35	S80°22'27"W	40.77

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

REV.	DESCRIPTION	DATE

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PREPARED FOR:
ESH DEVELOPMENT, LLC
5671 NORTH ORACLE ROAD
SUITE #1102
TUCSON, AZ 85704
(520) 742-2114

PREPARED UNDER MY DIRECT SUPERVISION FOR AND BEHALF OF WEST...

NOT FOR CONSTRUCTION

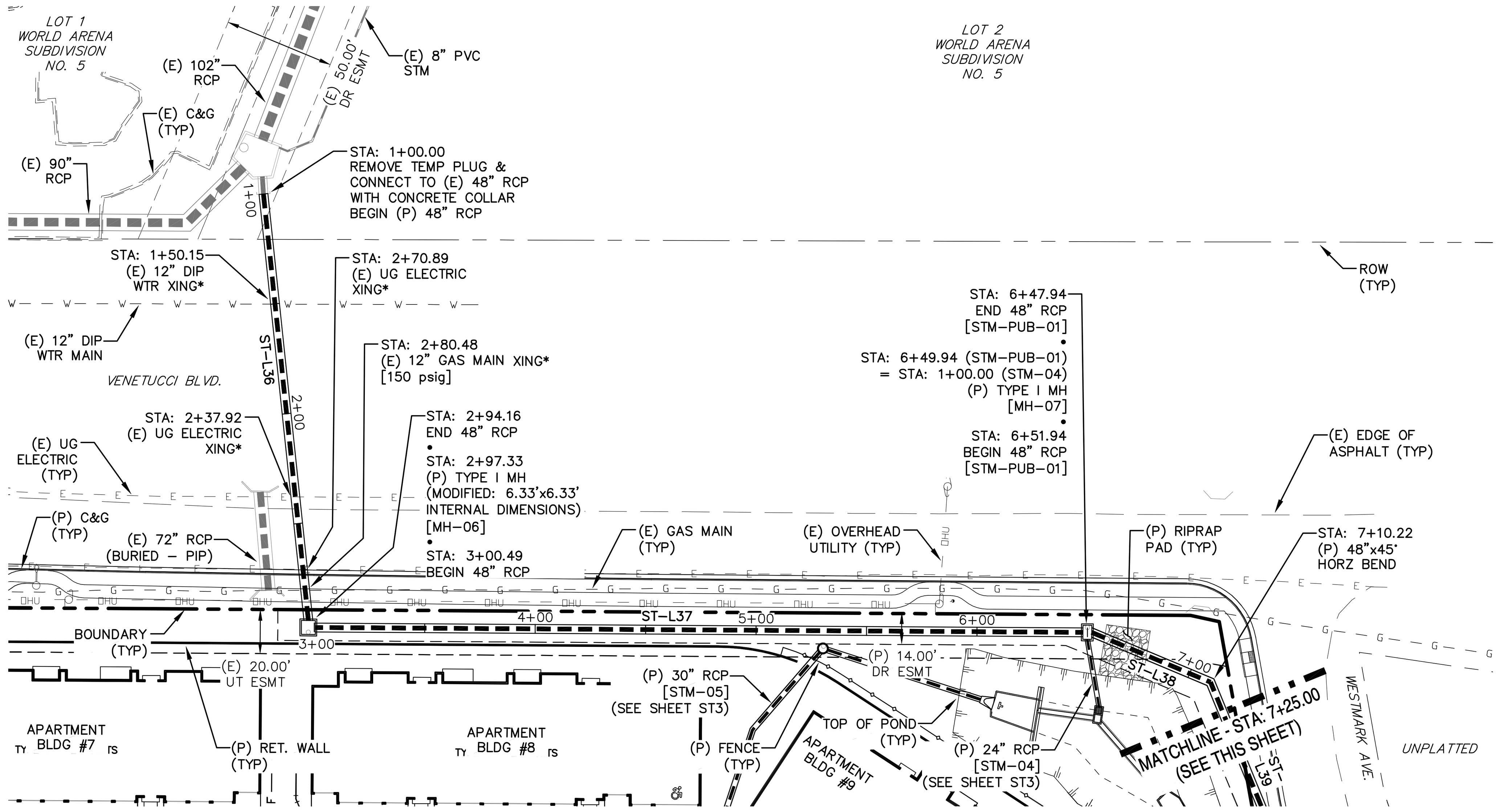
CHAD ... DATE

WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

STORM SEWER PLAN & PROFILES
STM-06, STM-06A, & STM-06B

DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1"=50'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	ST4 OF 9

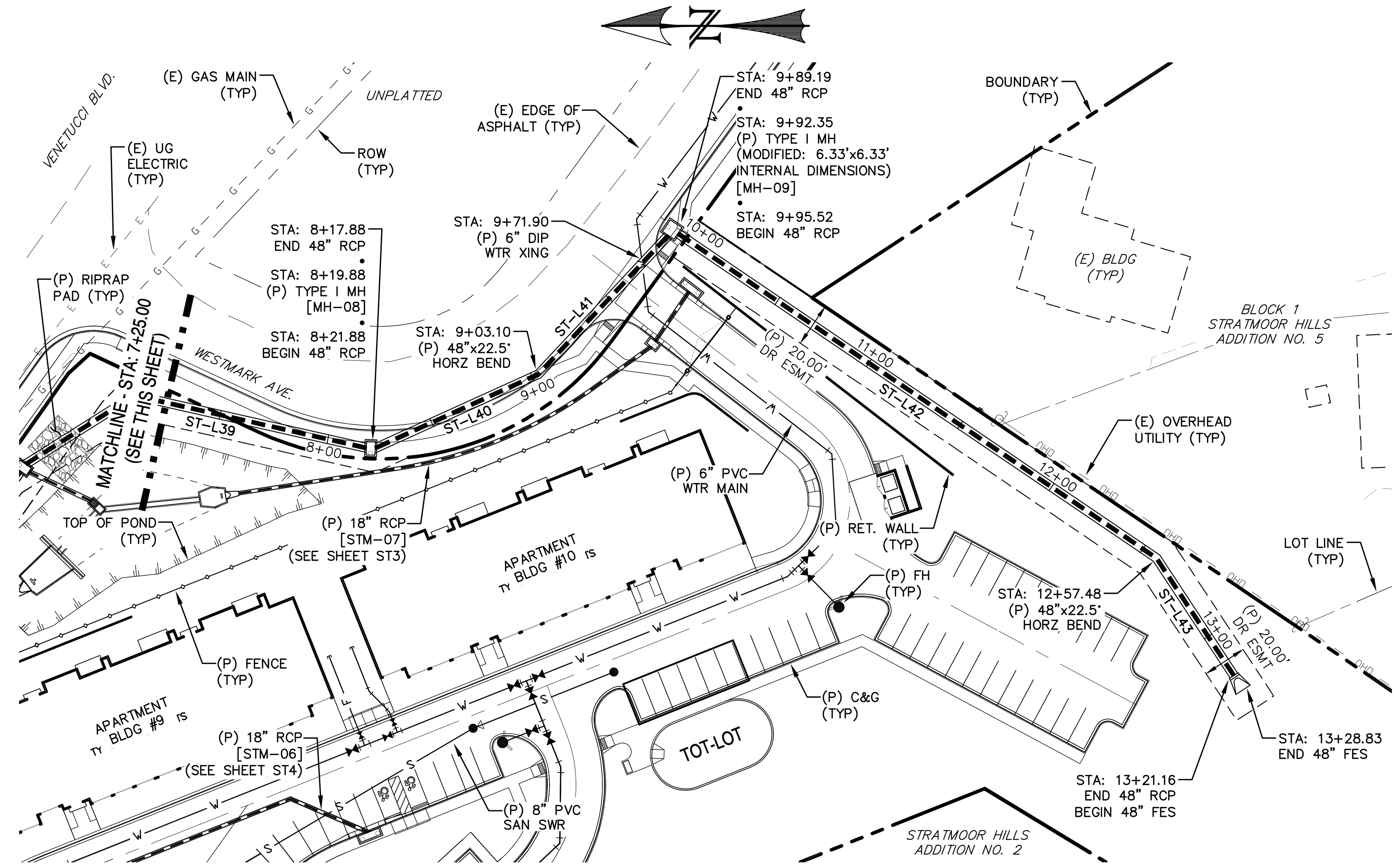


STM-PUB-01 [PUB]
STA: 1+00 ~ 7+25

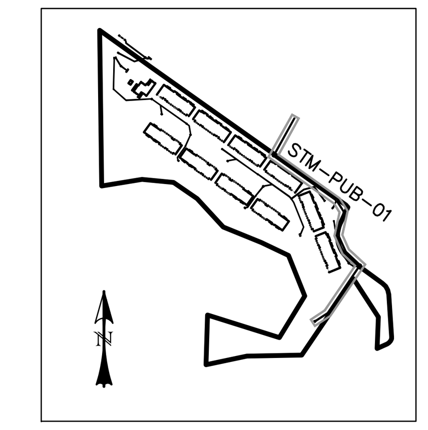
* THE LOCATION OF ALL EXISTING UTILITIES (HORIZONTAL & VERTICAL) SHALL BE FIELD VERIFIED PRIOR TO BEGINNING OF CONSTRUCTION.

LINE TABLE – STORM		
LINE	BEARING	DISTANCE
ST-L36	S28°59'35"W	194.16
ST-L37	S54°38'03"E	347.45
ST-L38	S32°14'46"E	58.28
ST-L39	S12°45'14"W	107.66
ST-L40	S24°24'28"E	81.22
ST-L41	S46°54'28"E	86.09
ST-L42	S34°08'59"W	261.96
ST-L43	S56°38'59"W	63.68

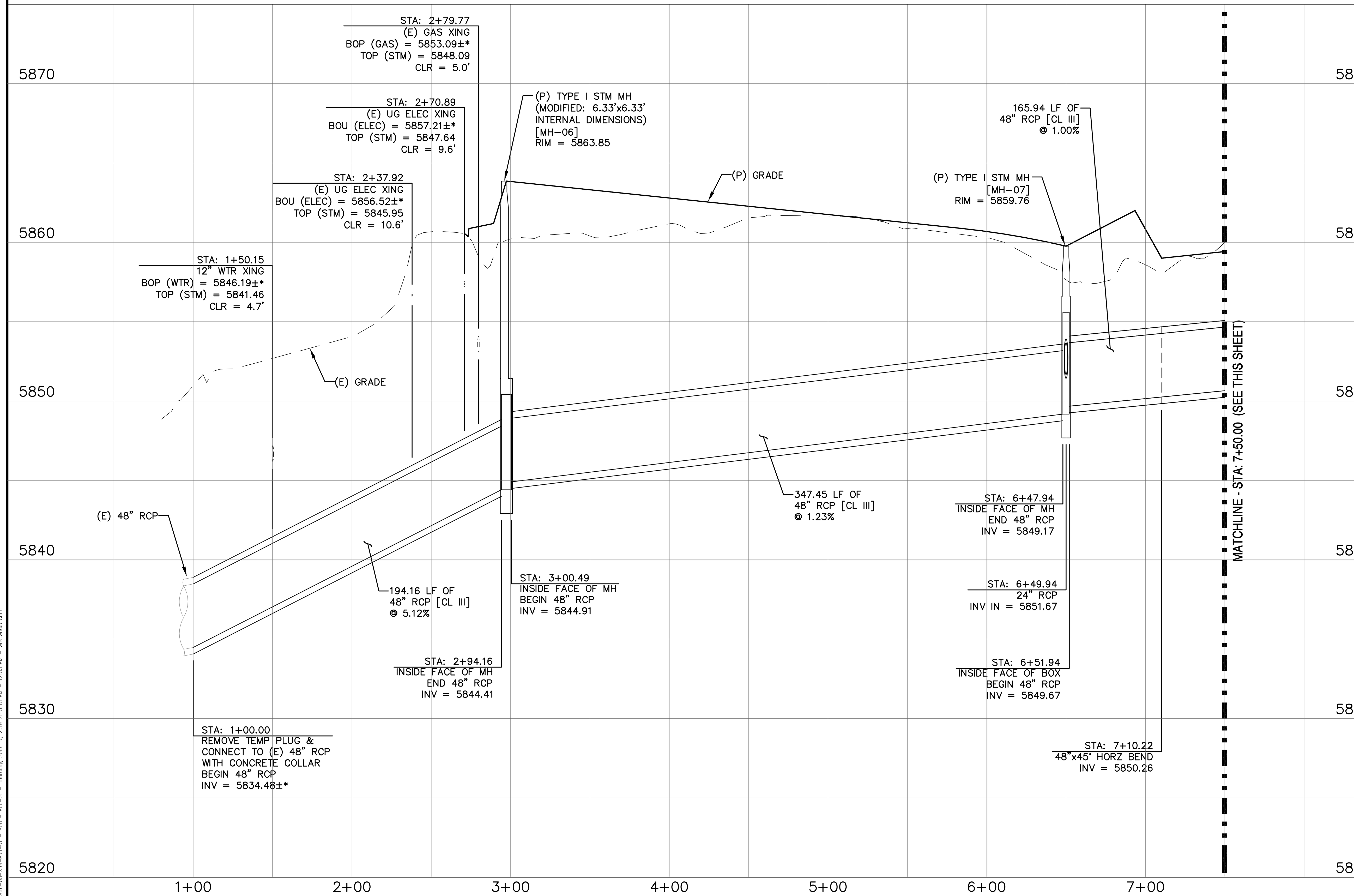
0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

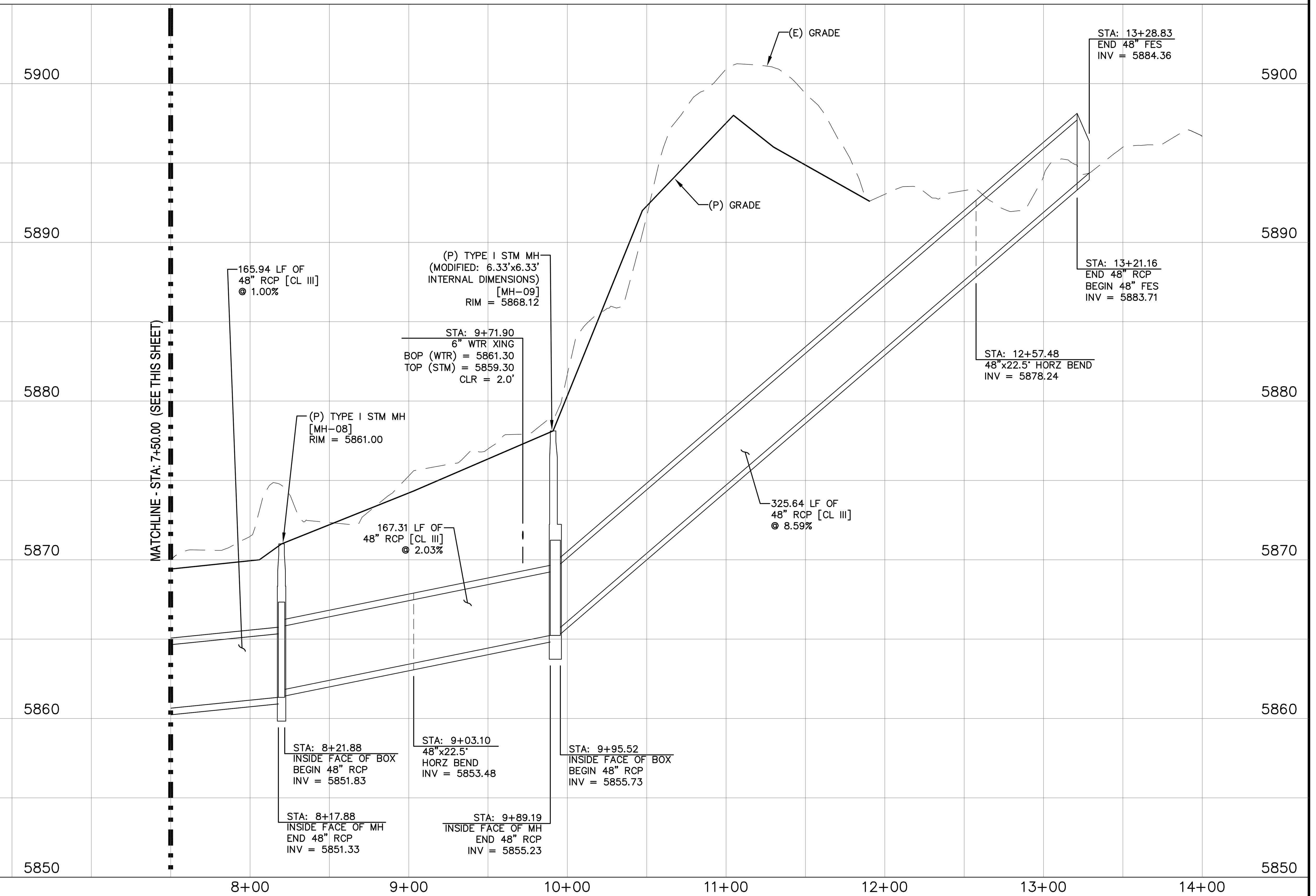


STM-PUB-01 [PUB]
STA: 7+25 ~ 13+30



KEY MAP
SCALE: N.T.S.





REV.	DESCRIPTION	DATE

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SUITE #1102
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CHAD ... COLORADO PE ... DATE

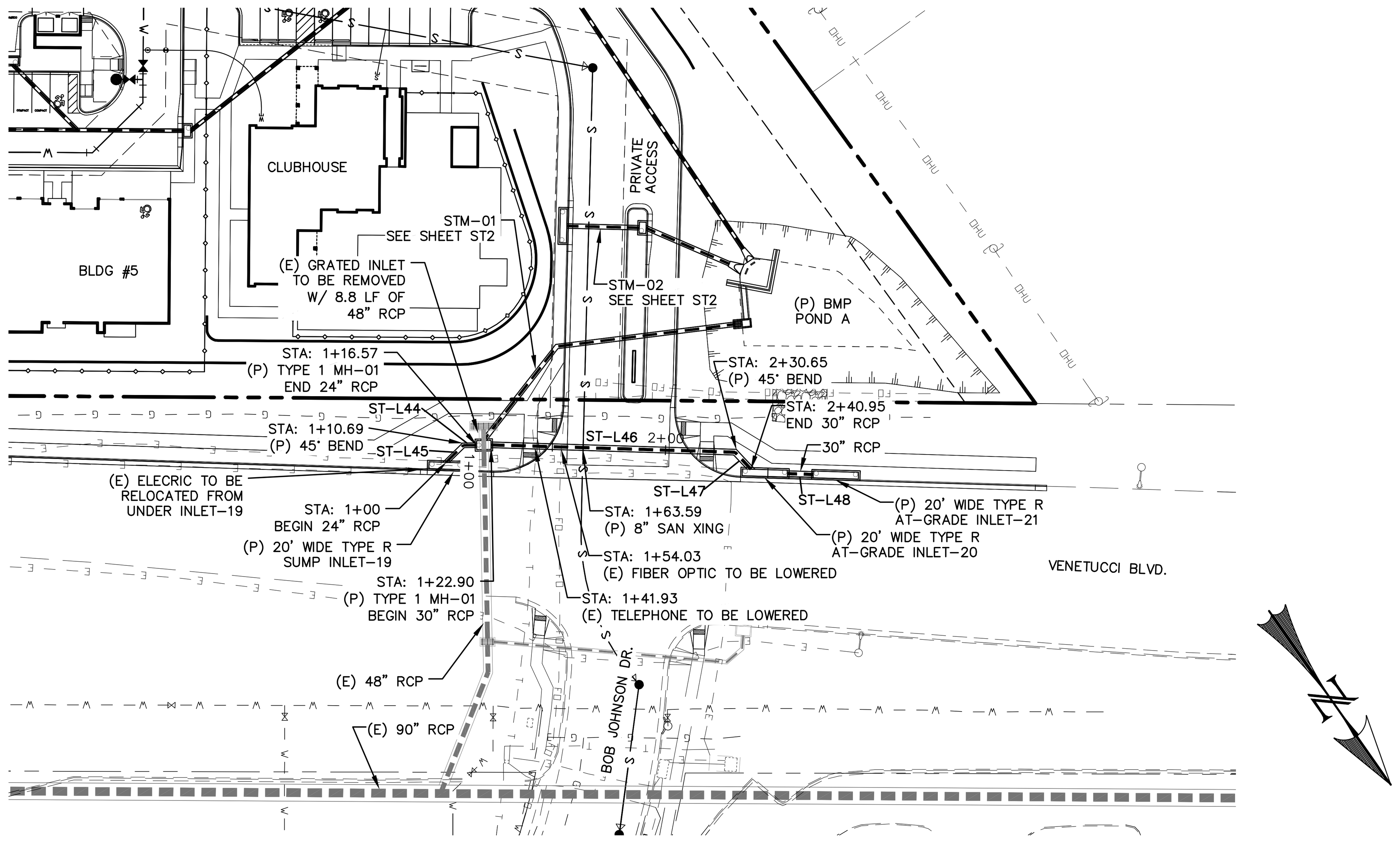
NOT FOR CONSTRUCTION

WESTWORKS ENGINEERING
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

STORM SEWER PLAN & PROFILES
STM-PUB-01

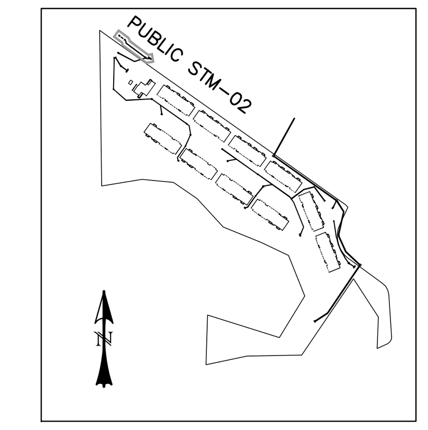
DESIGNED BY: MGP	DRAWN BY: MGP
SCALE: 1"=50'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	ST5 OF 9



PUBLIC STM-02
STA: 1+00 ~ 3+00

LINE TABLE – STORM		
LINE	BEARING	DISTANCE
ST-L44	S56°06'50"E	5.87
ST-L45	N80°32'59"E	10.69
ST-L46	N53°16'45"W	107.76
ST-L47	N08°16'45"W	10.30
ST-L48	N53°16'45"W	11.34

0 50 100
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'



KEY MAP
SCALE: N.T.S.

REV.	DESCRIPTION	DATE

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5671 NORTH ORACLE ROAD
SUITE #1102
TUSCON, AZ 85704
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CHAD ... COLORADO P.E. # ... DATE

NOT FOR CONSTRUCTION

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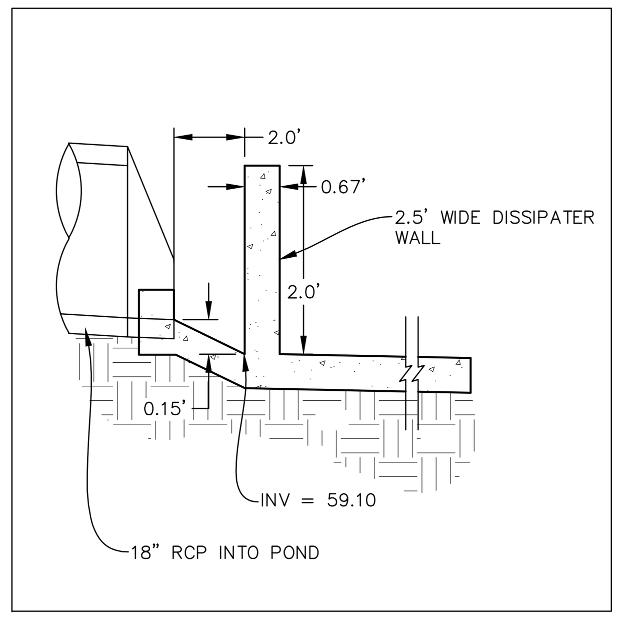
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

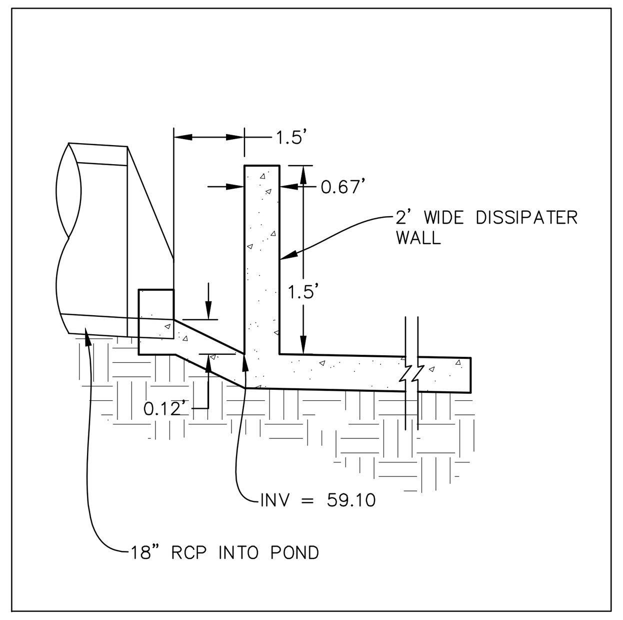
ELDORADO SPRINGS

STORM SEWER PLAN & PROFILES
PUBLIC STM-02

DESIGNED BY: MGP	DRAWN BY: CDK
SCALE: 1"=50'	DATE: 06/27/19
JOB NUMBER	SHEET
91807	ST6 OF 9



FOREBAY DISSIPATER STM-02
SCALE: N.T.S.



FOREBAY DISSIPATER STM-03
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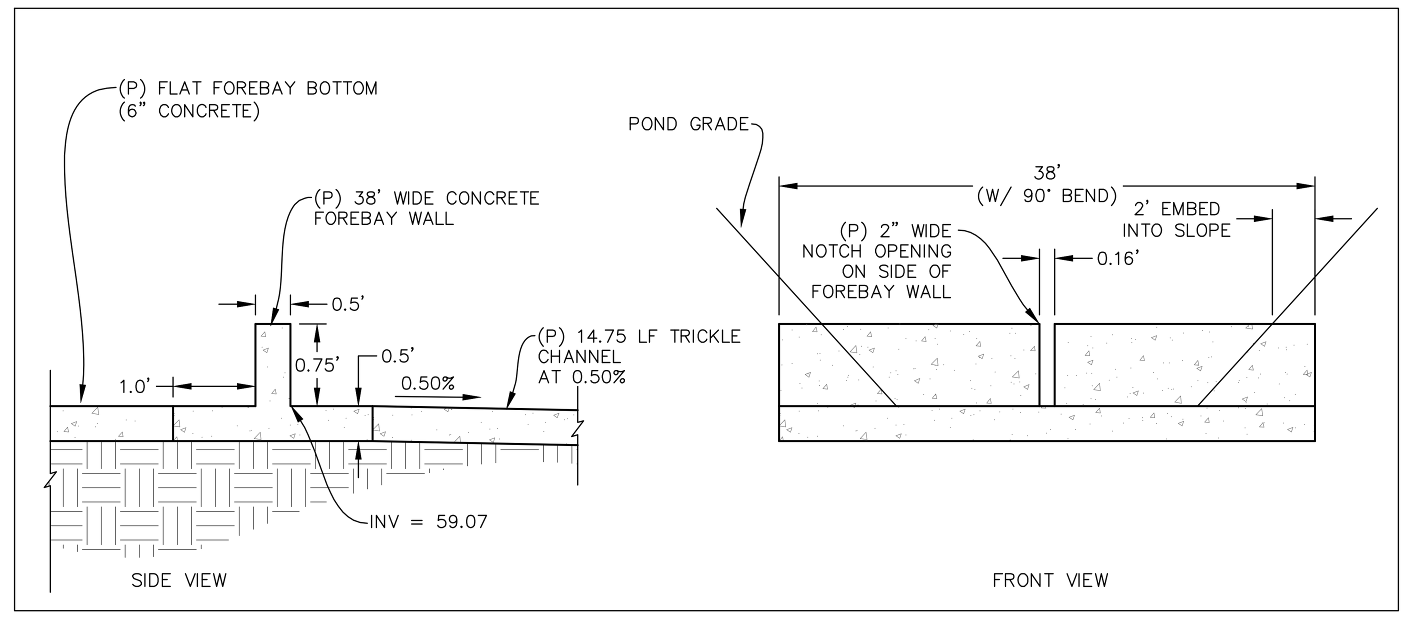
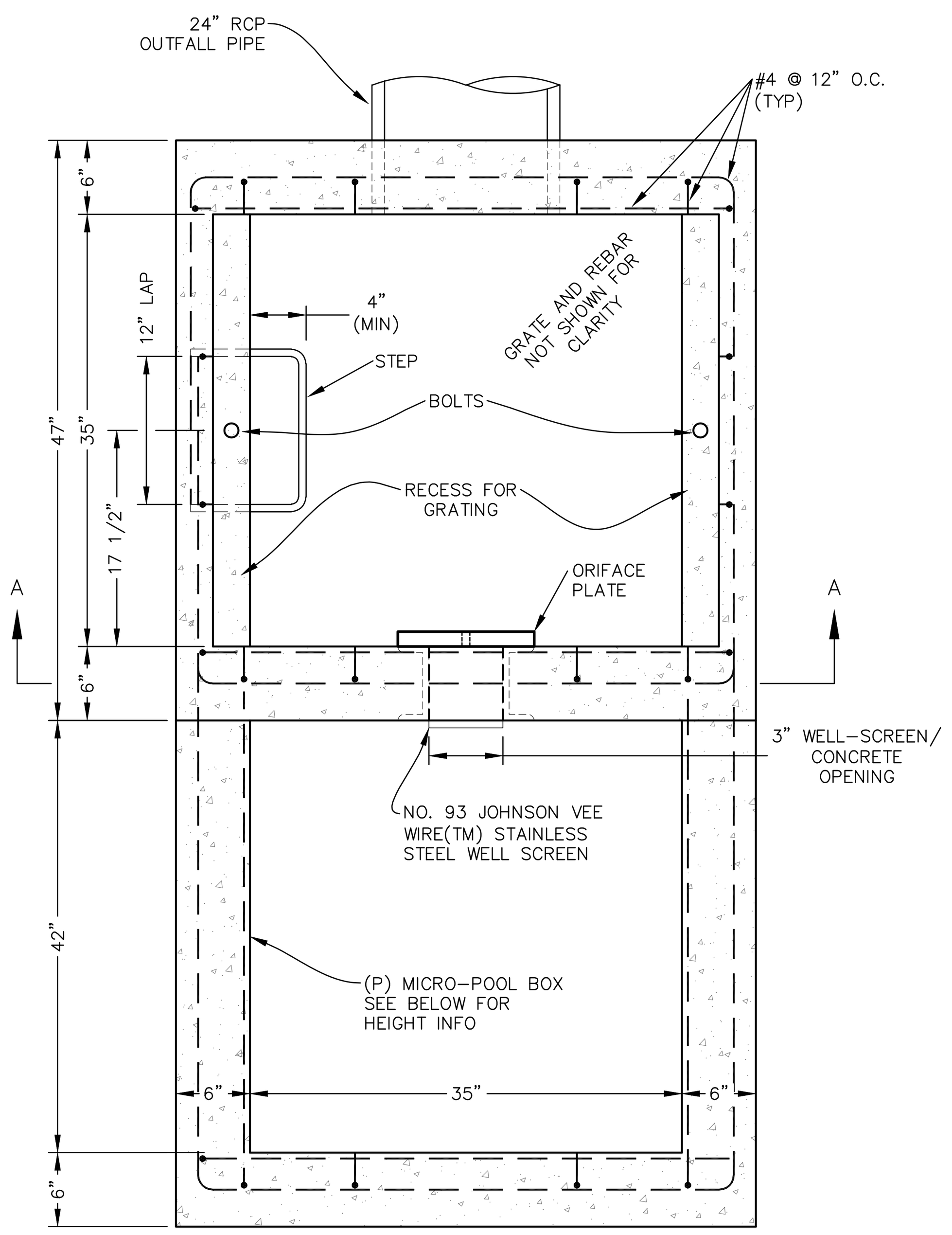
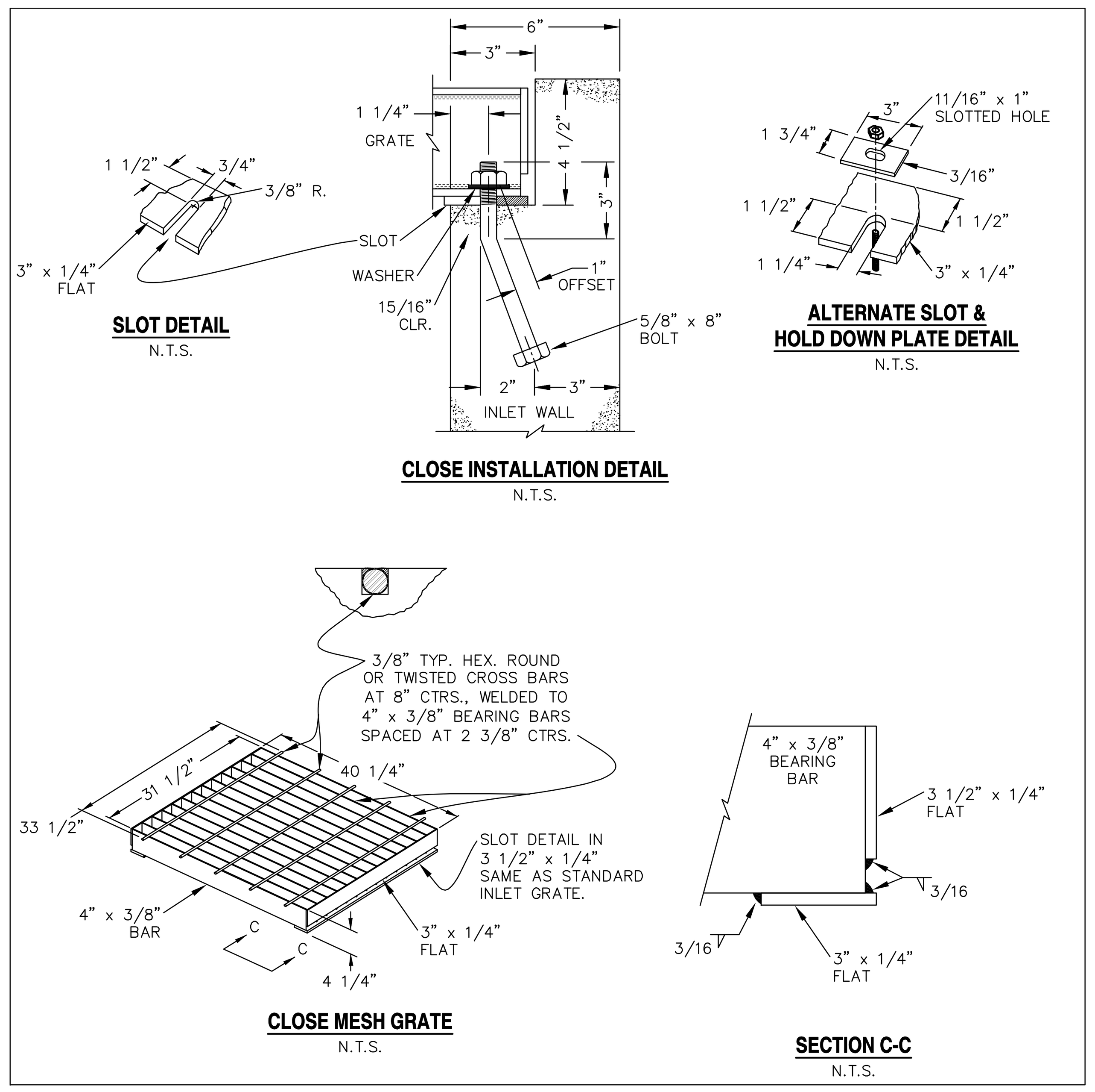


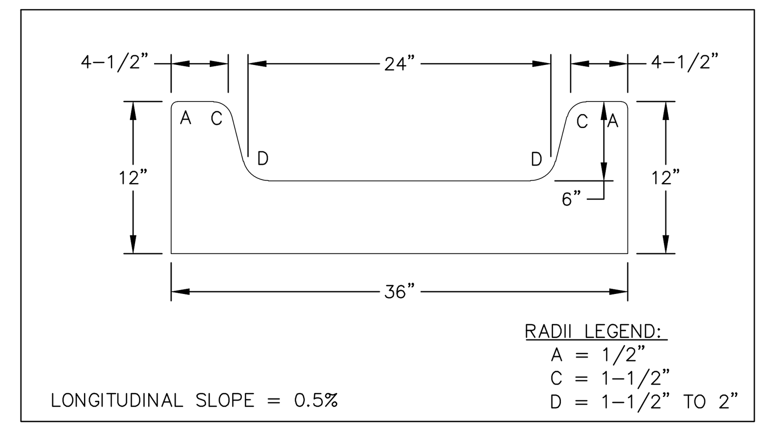
FOREBAY WALL DETAILS
SCALE: N.T.S.



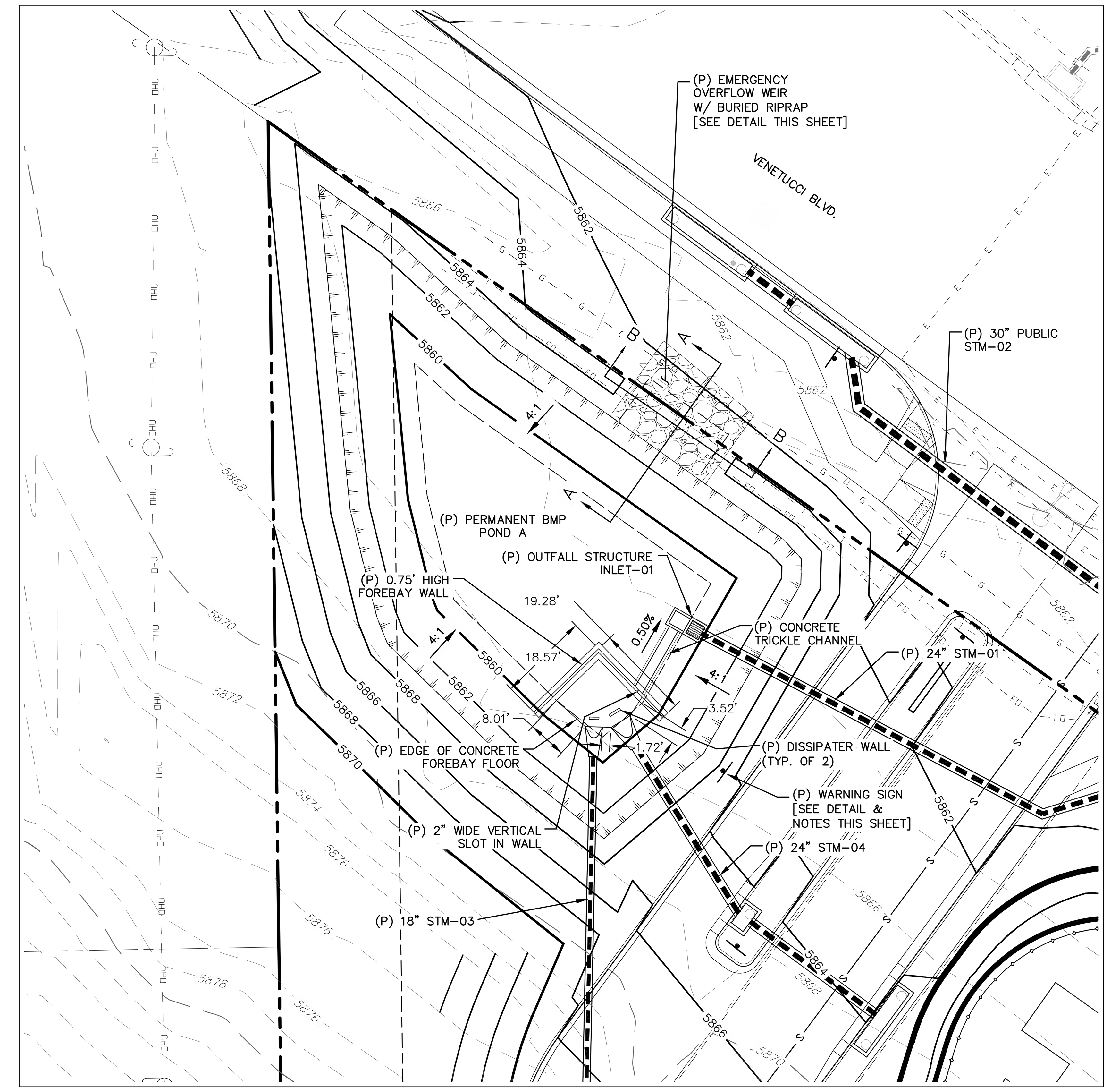
PLAN VIEW
N.T.S.



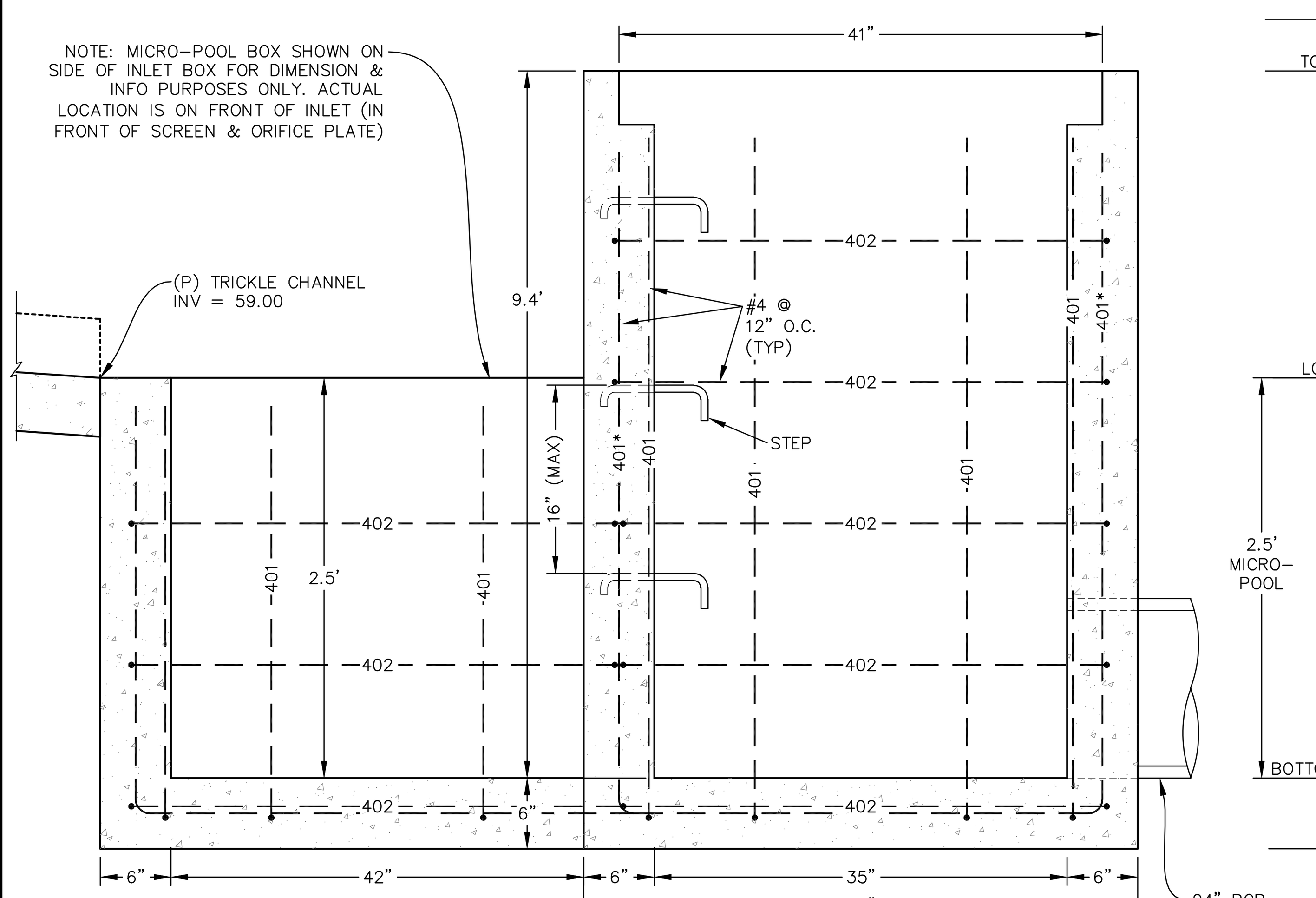
CDOT MESH GRATE DETAILS
N.T.S.



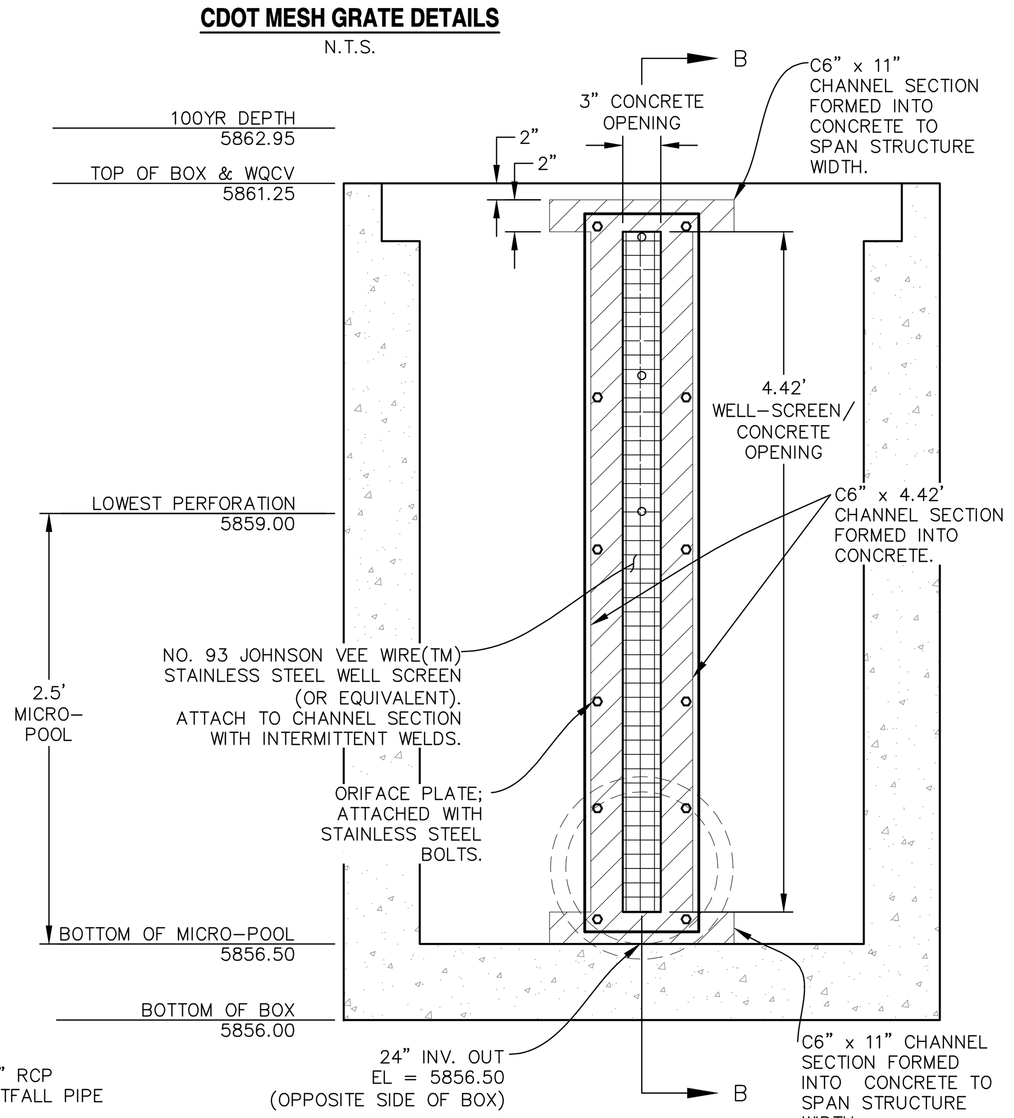
CONCRETE TRICKLE CHANNEL
SCALE: N.T.S.



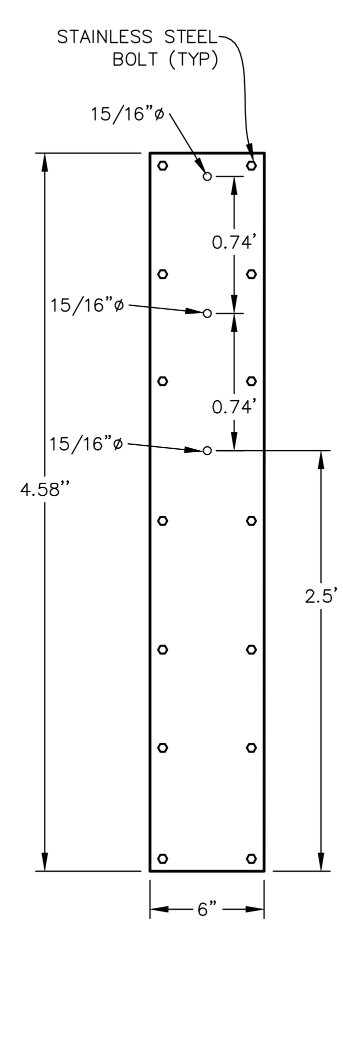
POND A
SCALE: 1" = 20'



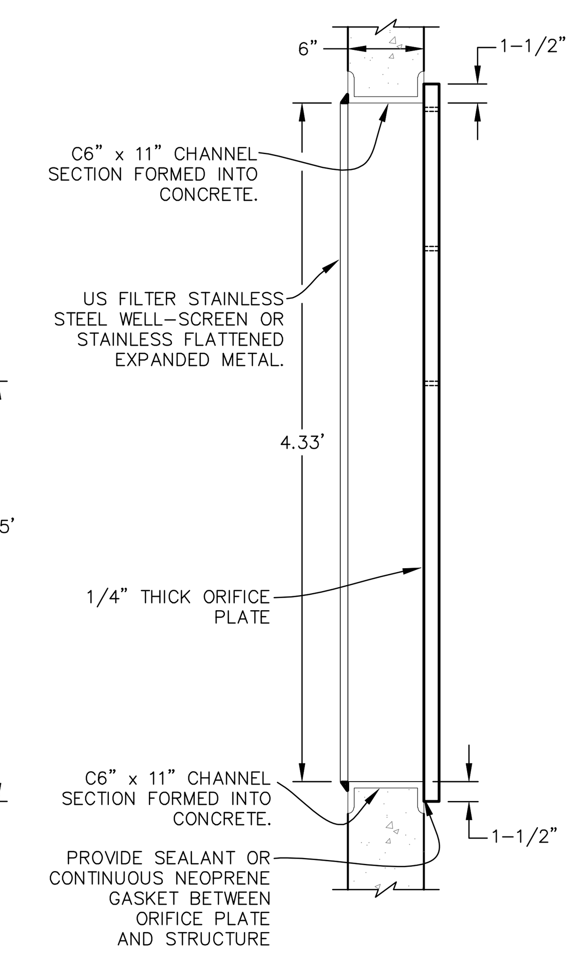
ELEVATION
N.T.S.



SECTION A-A
N.T.S.



ORIFICE PLATE
N.T.S.



SECTION B-B
N.T.S.

CDOT GENERAL NOTES:

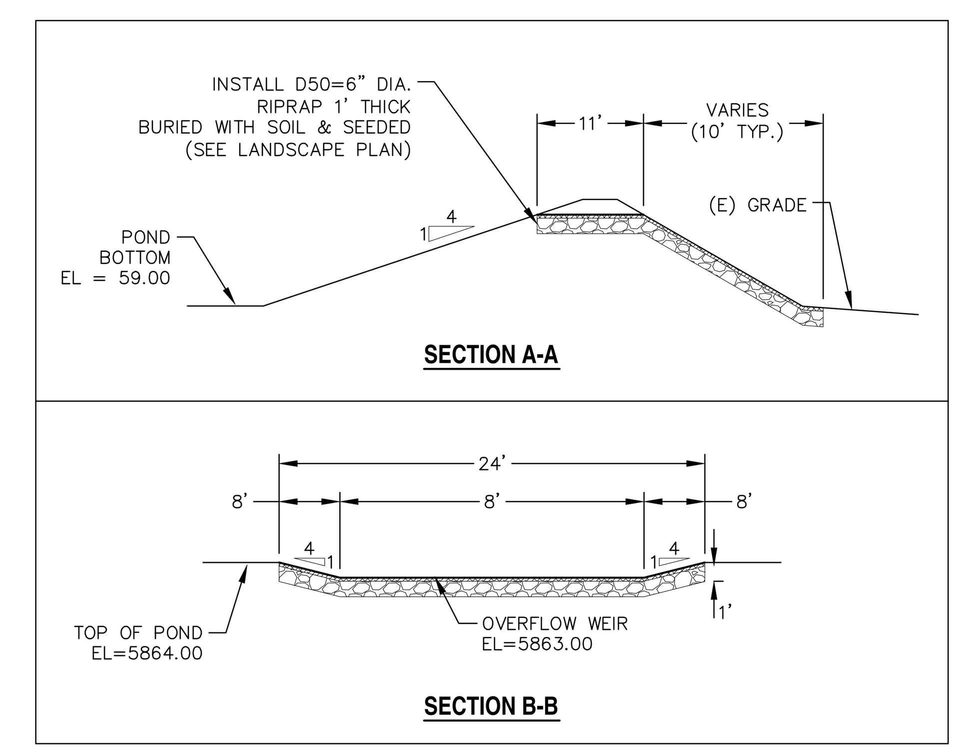
1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL HAVE A MINIMUM 2 IN. CLEARANCE.
3. CONCRETE SLOPE AND DITCH PAVING SHALL CONFORM TO SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
5. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 3 FT.–6 IN. AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
7. SEE SHEET M-604-11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.

♦ CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

WARNING
THIS AREA IS A STORMWATER FACILITY AND IS SUBJECT TO PERIODIC FLOODING

WARNING SIGN DETAIL
SCALE: N.T.S.

NOTES:
- SIGN SHALL BE A MINIMUM OF 3 SQ.FT.
- SIGN SHALL BE FABRICATED OF DURABLE MATERIALS SUCH AS METAL OR PLASTIC.
- SIGN SHALL HAVE RED LETTERING ON A WHITE BACKGROUND.



OVERFLOW WEIR DETAILS
SCALE: N.T.S.

REV.	DESCRIPTION	DATE

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SUITE #1102
TUSCON, AZ 85704
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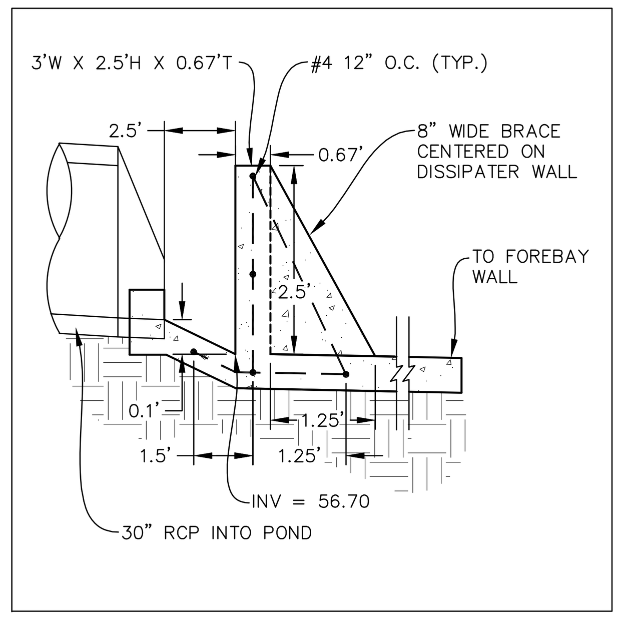
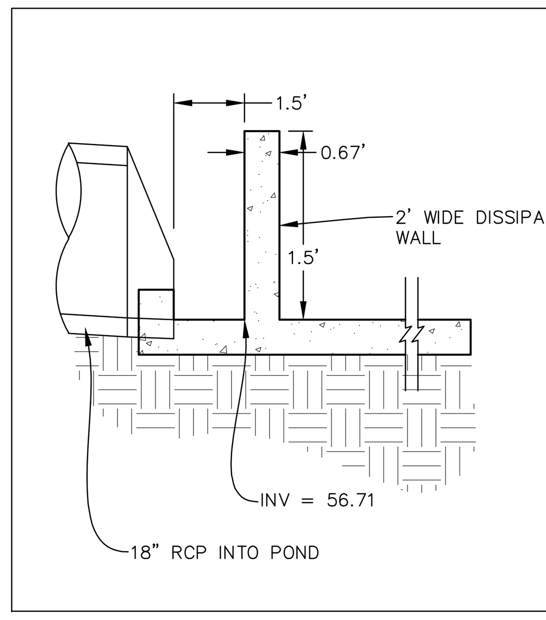
ELDORADO SPRINGS

PERMANENT BMP PLANS & DETAILS
POND A

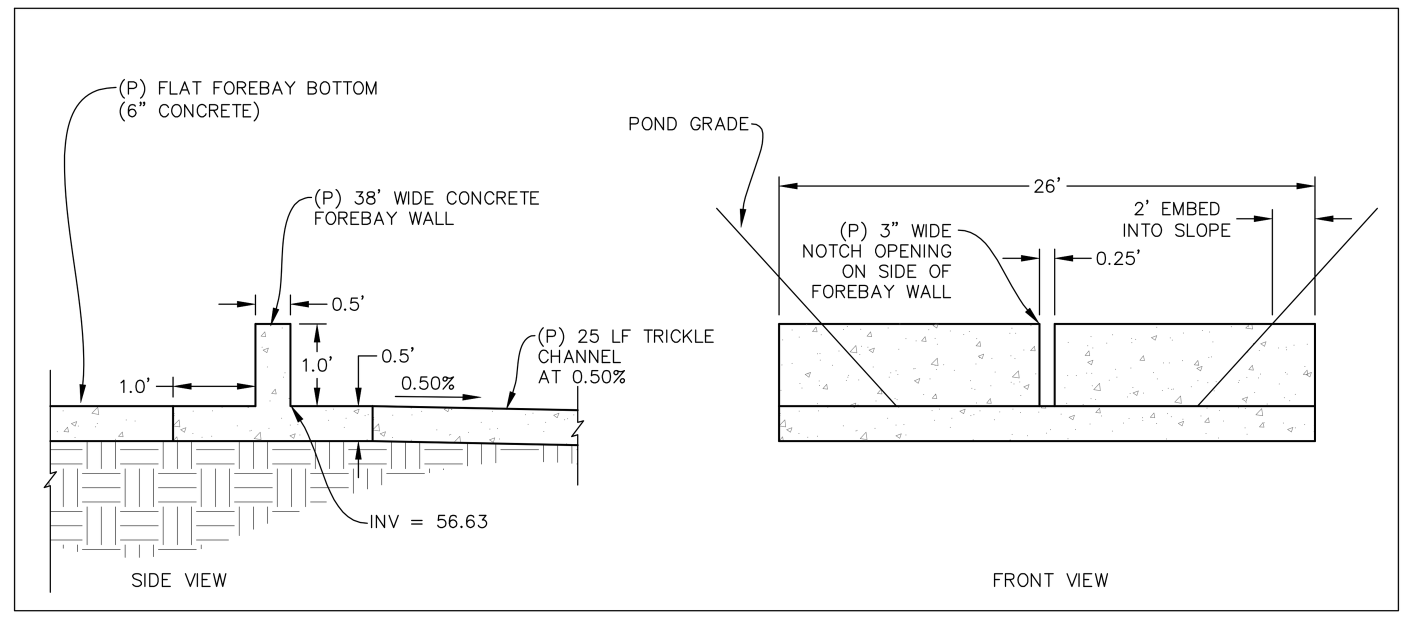
DESIGNED BY:	CDK	DRAWN BY:	CDK
SCALE:	AS SHOWN	DATE:	06/27/19
JOB NUMBER		SHEET	
91807		ST7 OF 9	



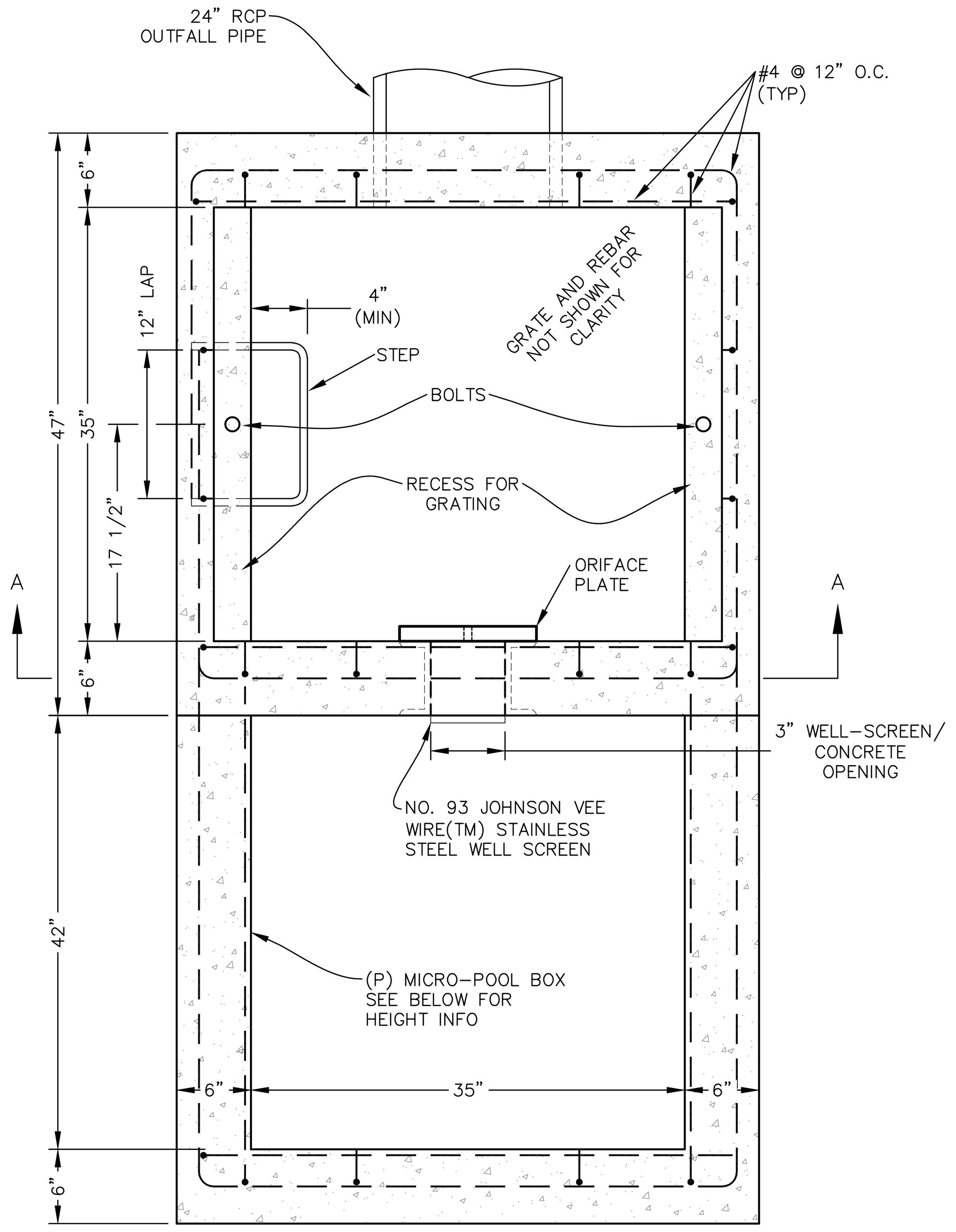
FOREBAY DISSIPATER STM-05
SCALE: N.T.S.



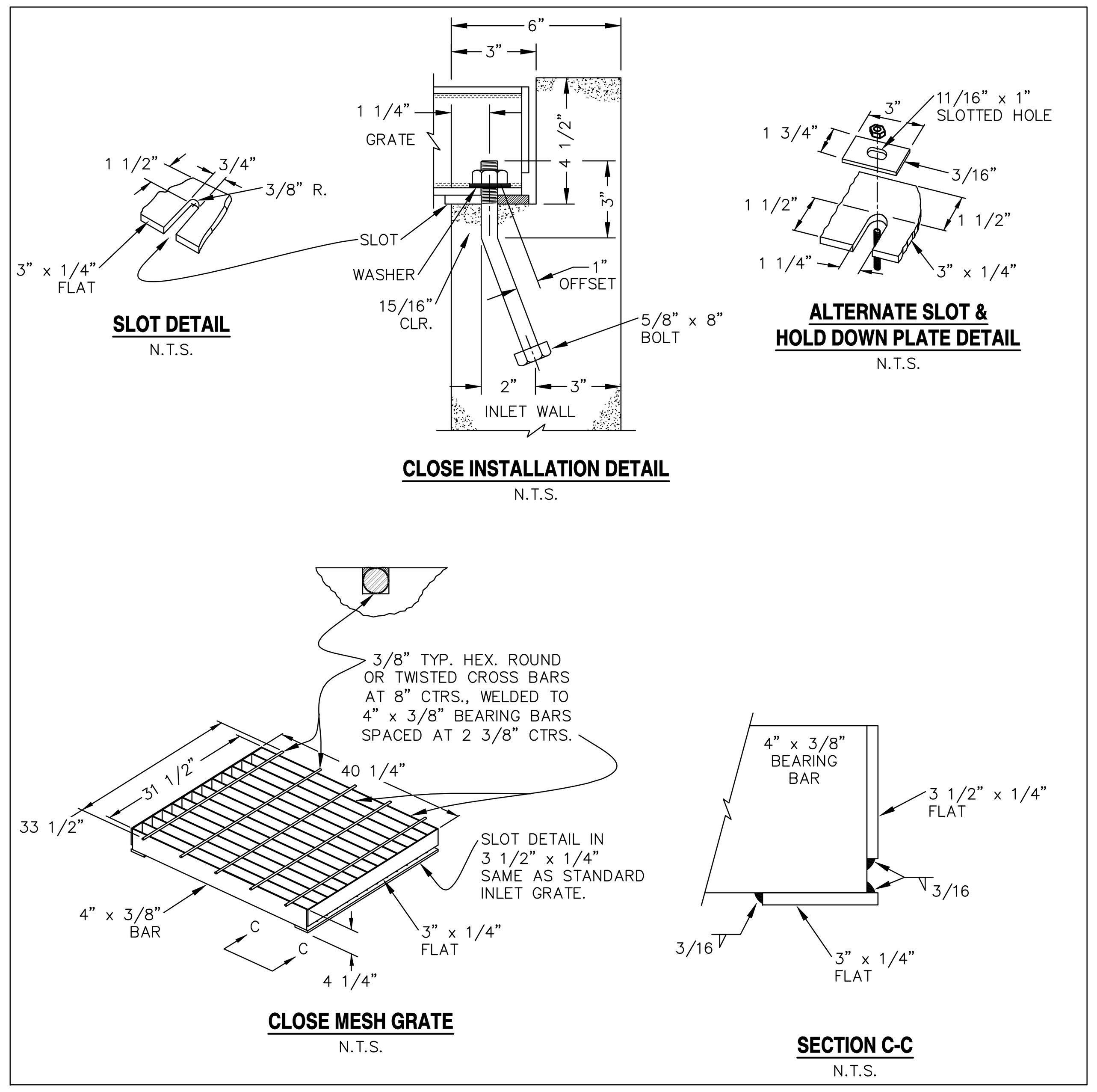
FOREBAY DISSIPATER STM-07
SCALE: N.T.S.



FOREBAY WALL DETAILS - STM-05 DISCHARGE
SCALE: N.T.S.



PLAN VIEW
N.T.S.



SLOT DETAIL
N.T.S.

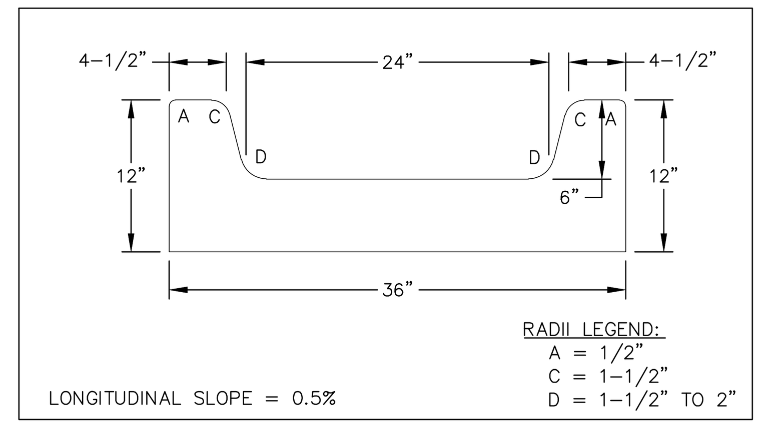
CLOSE INSTALLATION DETAIL
N.T.S.

ALTERNATE SLOT & HOLD DOWN PLATE DETAIL
N.T.S.

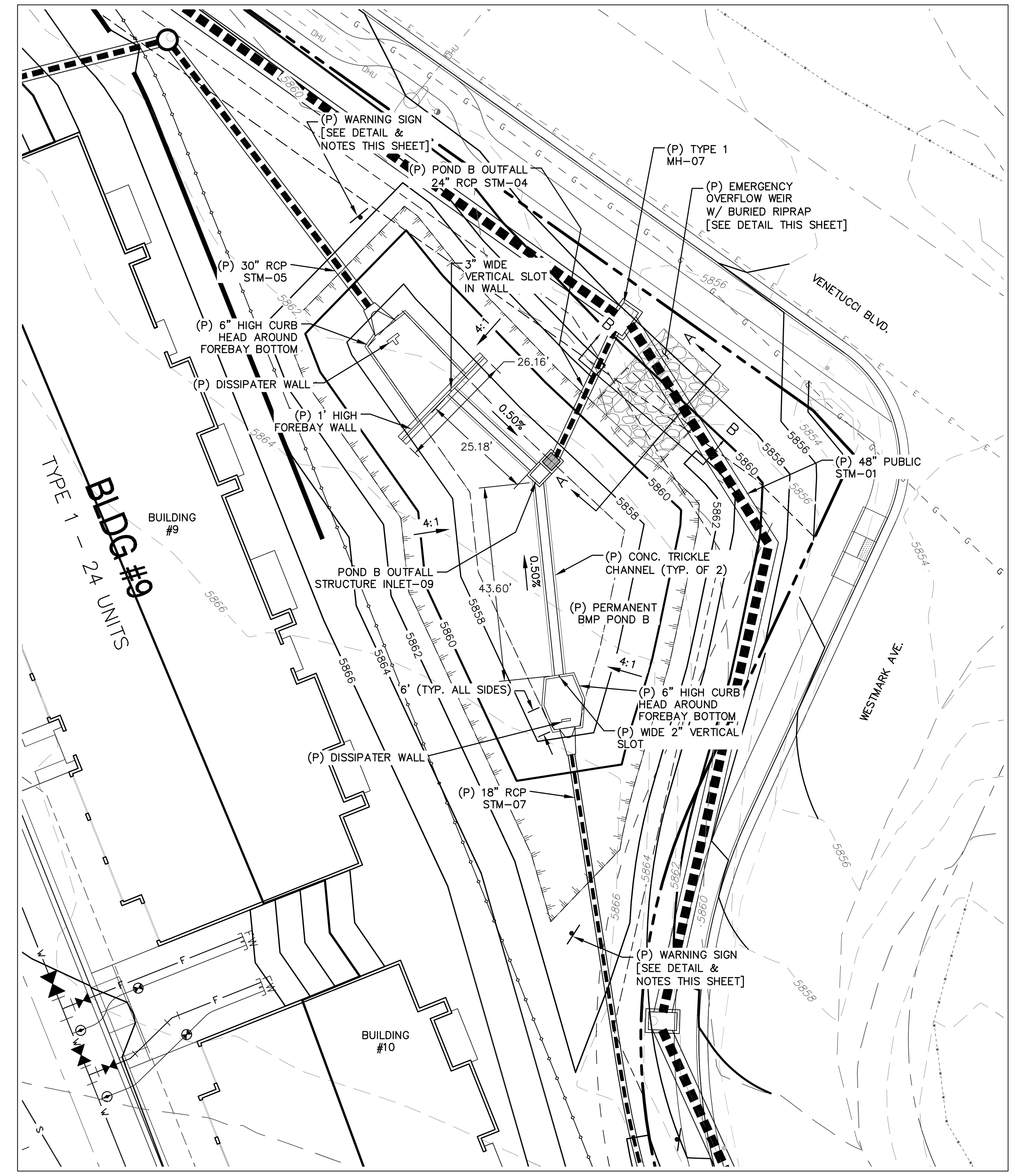
CLOSE MESH GRATE
N.T.S.

SECTION C-C
N.T.S.

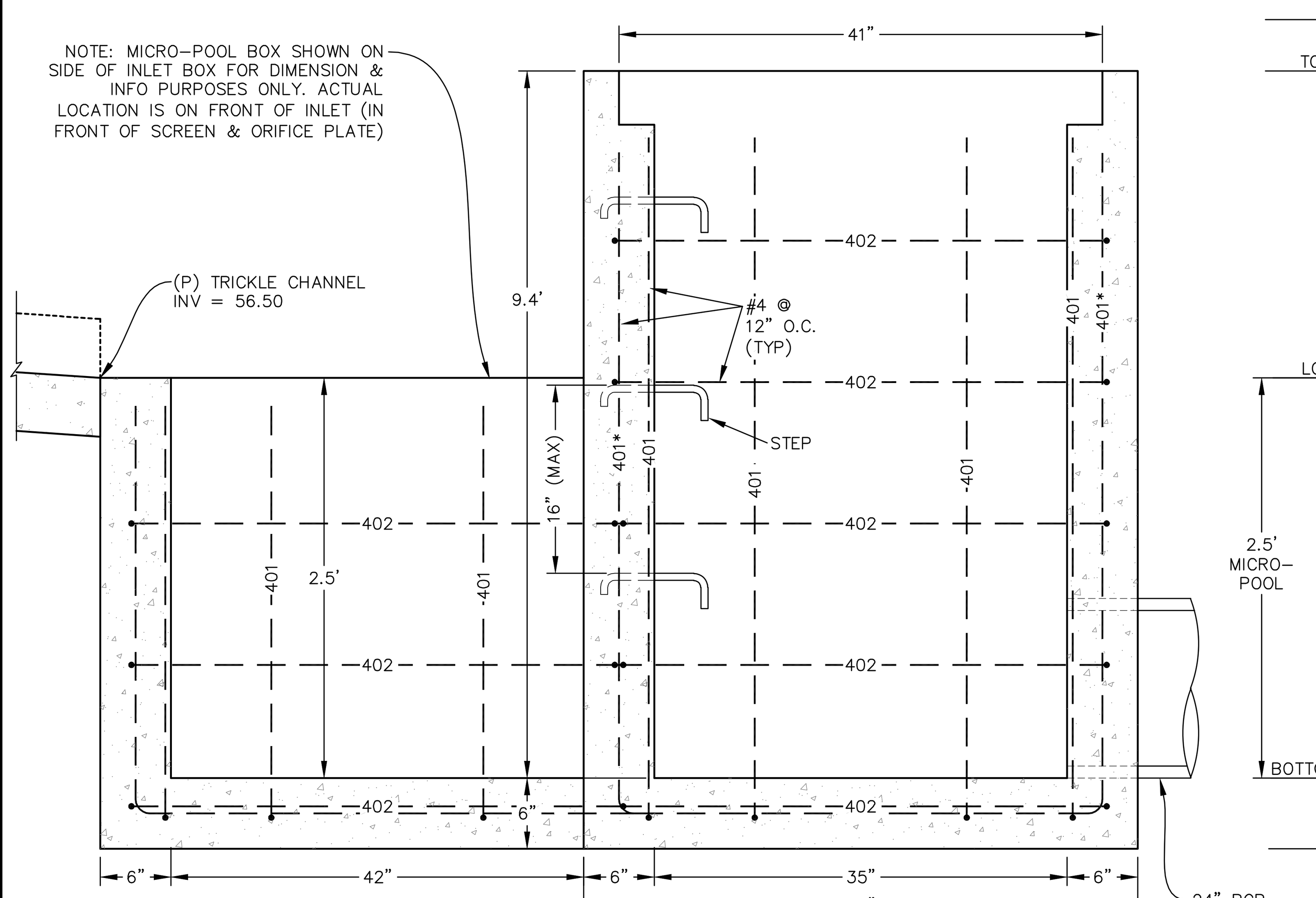
CDOT MESH GRATE DETAILS
N.T.S.



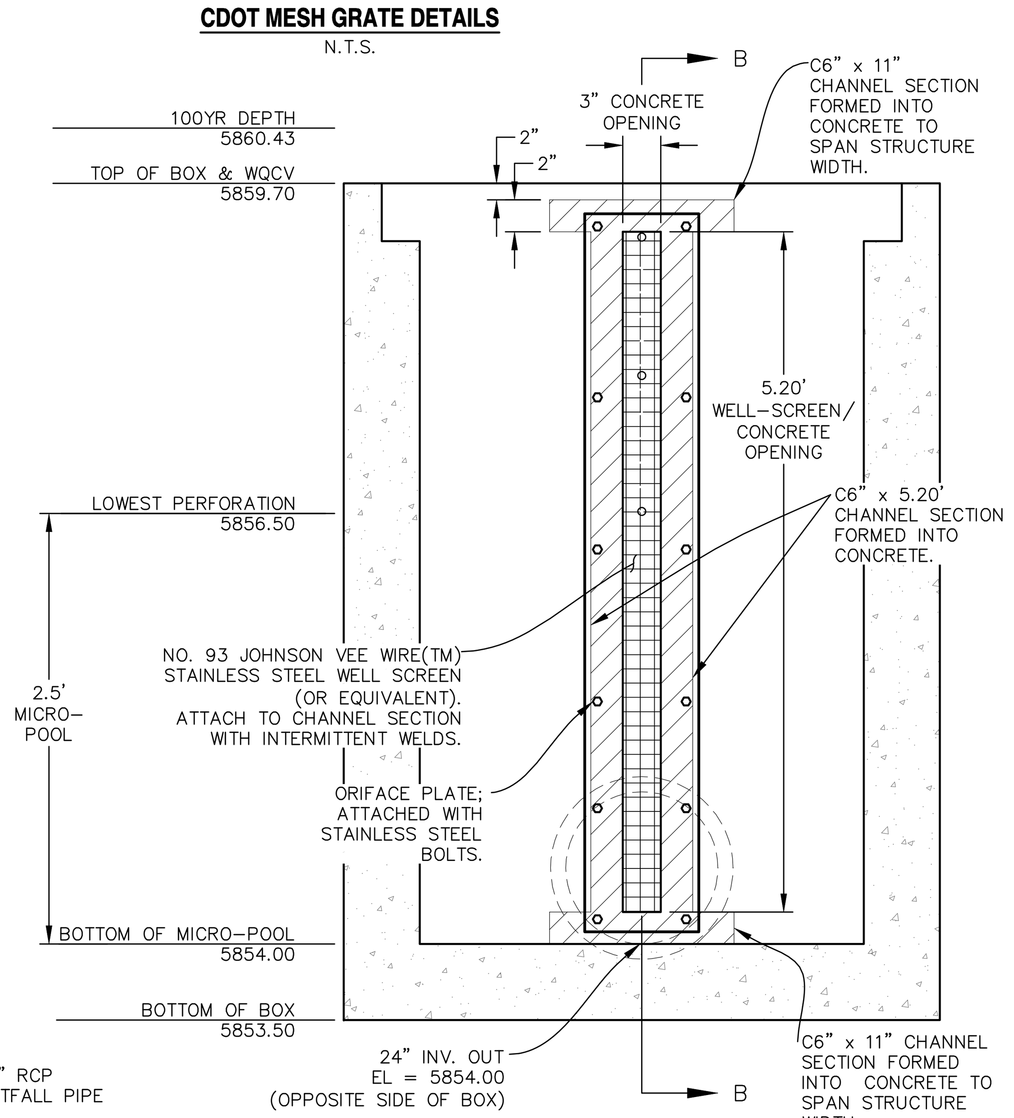
CONCRETE TRICKLE CHANNEL
SCALE: N.T.S.



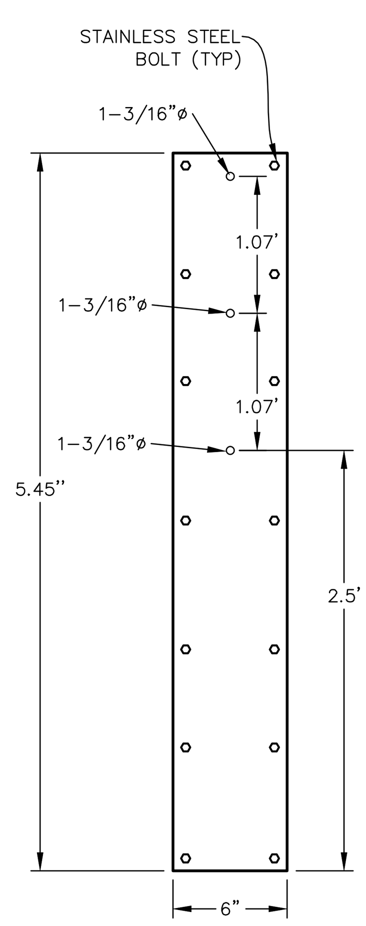
POND B
SCALE: 1" = 20'



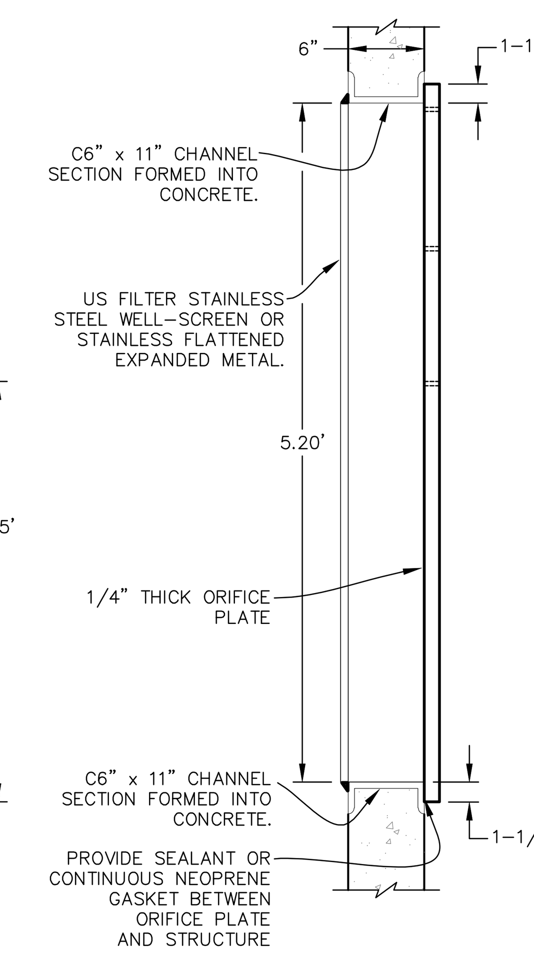
ELEVATION
N.T.S.



SECTION A-A
N.T.S.



ORIFICE PLATE
N.T.S.



SECTION B-B
N.T.S.

CDOT GENERAL NOTES:

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. REINFORCING BARS SHALL HAVE A MINIMUM 2 IN. CLEARANCE.
3. CONCRETE SLOPE AND DITCH PAVING SHALL CONFORM TO SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 – W1.4 X W1.4 OR 6 X 6 – W2.1 X W2.1.
4. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH 712.06.
5. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
6. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" EXCEEDS 3 FT.-6 IN. AND SHALL BE IN ACCORDANCE WITH AASHTO M 199.
7. SEE SHEET M-604-11, INLET, TYPE D, FOR REINFORCEMENT AROUND THE PIPE OPENING.

♦ CONCRETE SLOPE AND DITCH PAVING WILL BE REQUIRED WHEN SHOWN ON PLANS.

WARNING
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WARNING SIGN DETAIL
SCALE: N.T.S.

NOTES:
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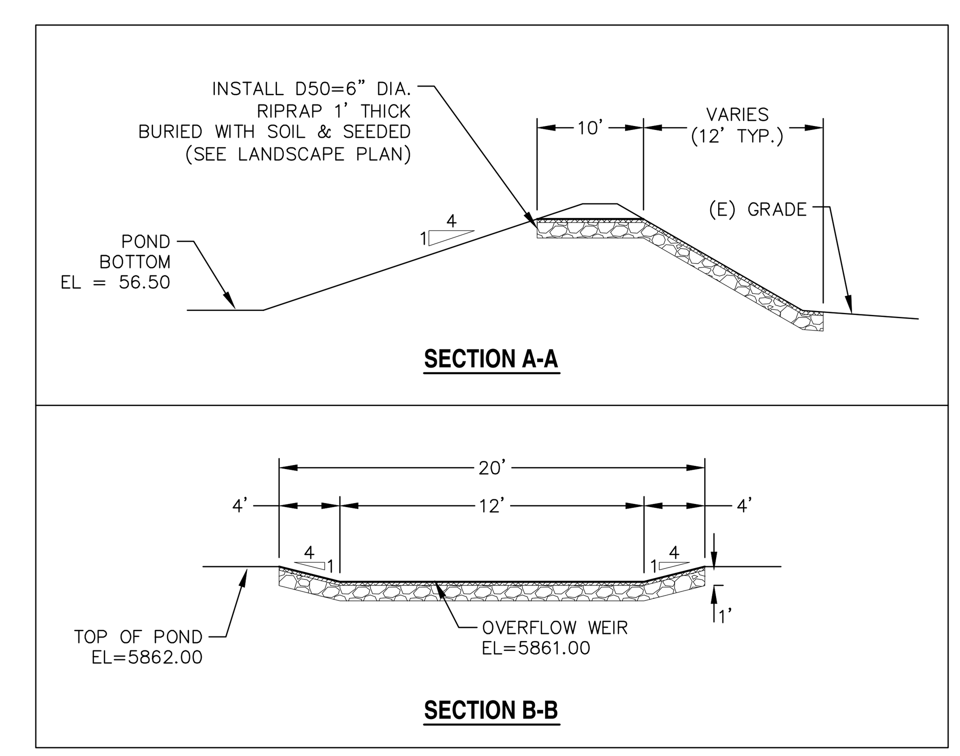
- SIGN SHALL BE FABRICATED OF DURABLE MATERIALS SUCH AS METAL OR PLASTIC.
- SIGN SHALL HAVE RED LETTERING ON A WHITE BACKGROUND.



OVERFLOW WEIR DETAILS
SCALE: N.T.S.

REV.	DESCRIPTION	DATE

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SUITE #1102
TUSCON, AZ 85704
(520) 742-2114

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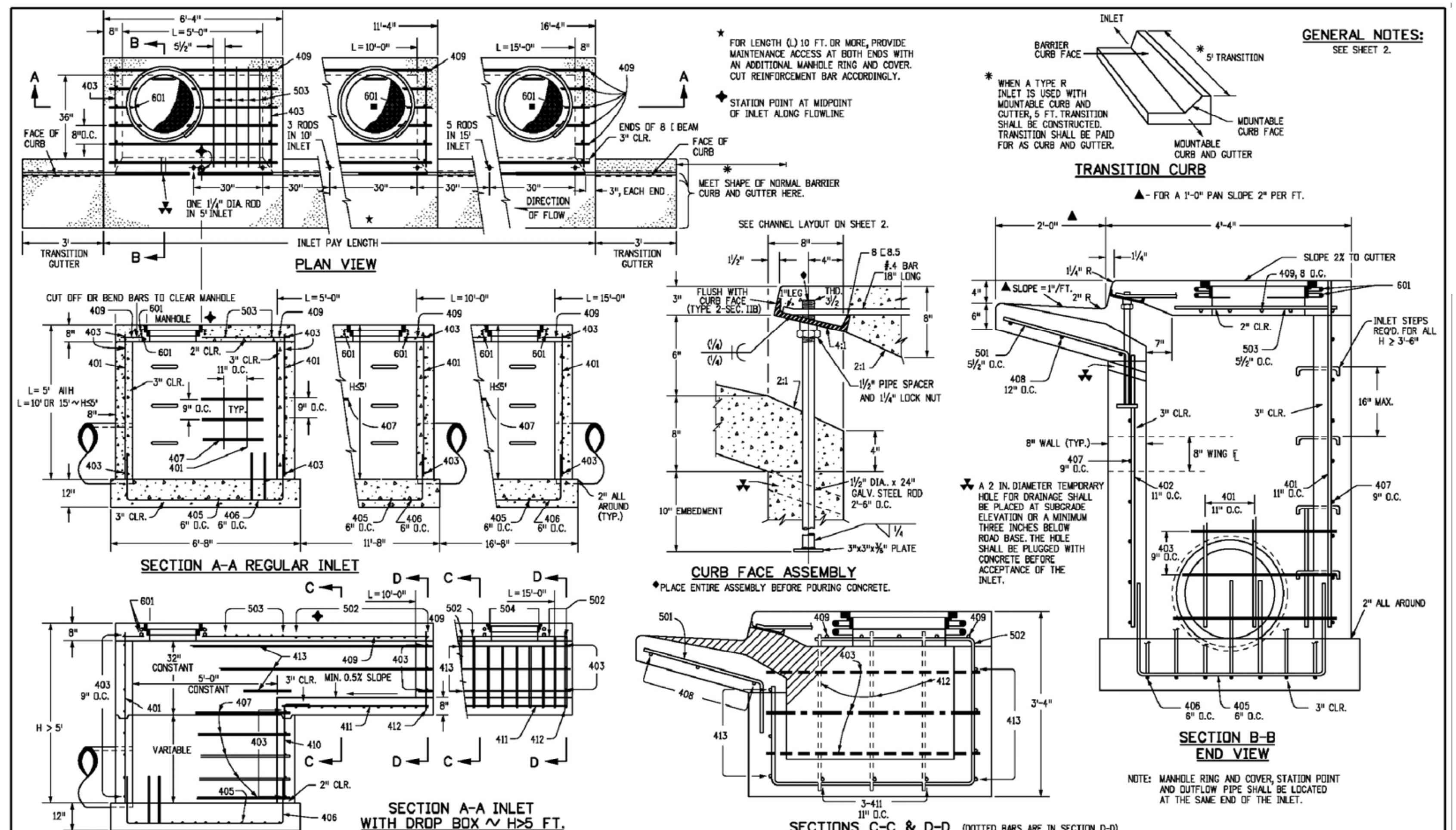
1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

PERMANENT BMP PLANS & DETAILS
POND B

DESIGNED BY: CDK	DRAWN BY: CDK
SCALE: AS SHOWN	DATE: 06/27/19
JOB NUMBER	SHEET
91807	ST8 OF 9



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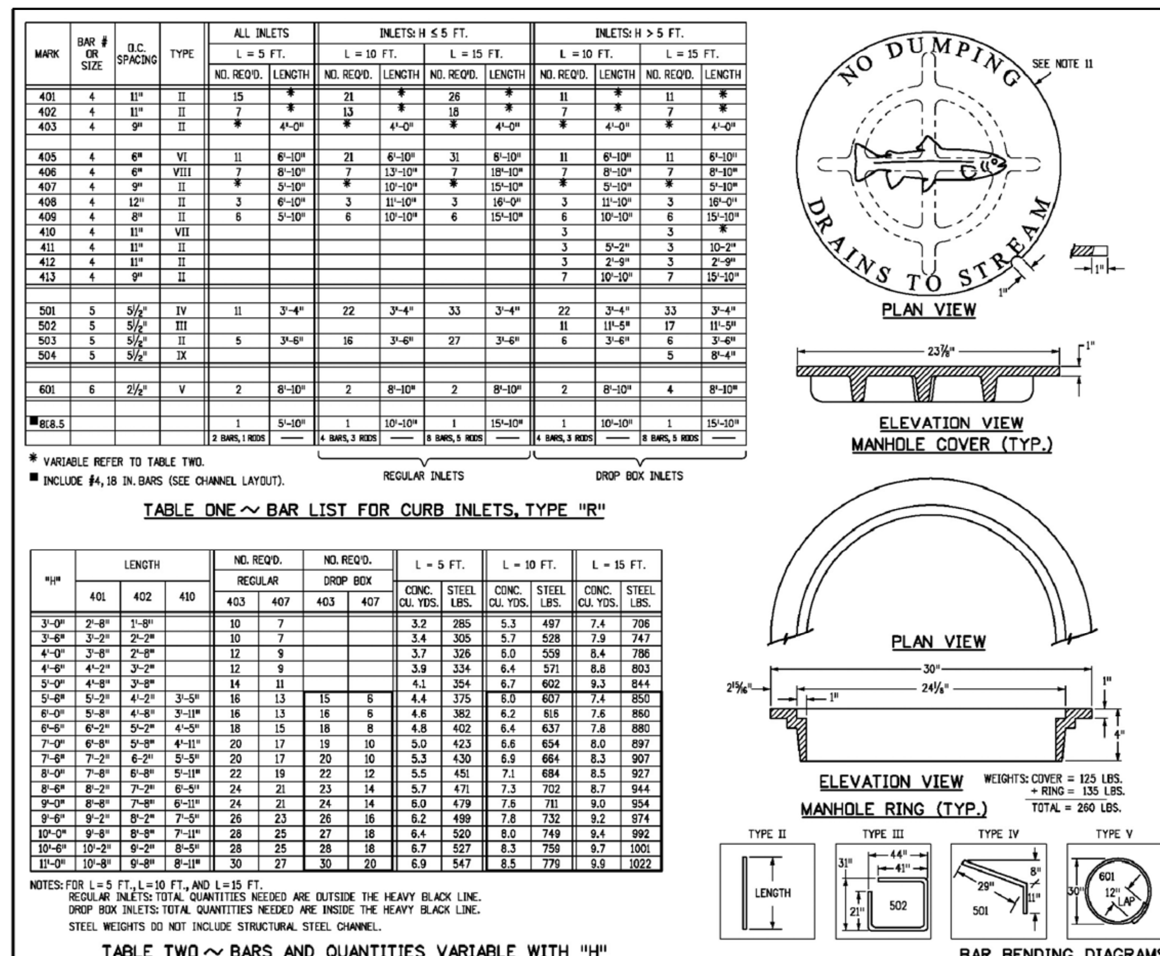
Last Modification Date: 07/04/12	Initials: LTA	(R-X)		
Full Path: www.coloradodot.info/business/designsupport		(R-X)		
Drawing File Name: 6040102001.dgn		(R-X)		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English		(R-X)		

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

CURB INLET TYPE R

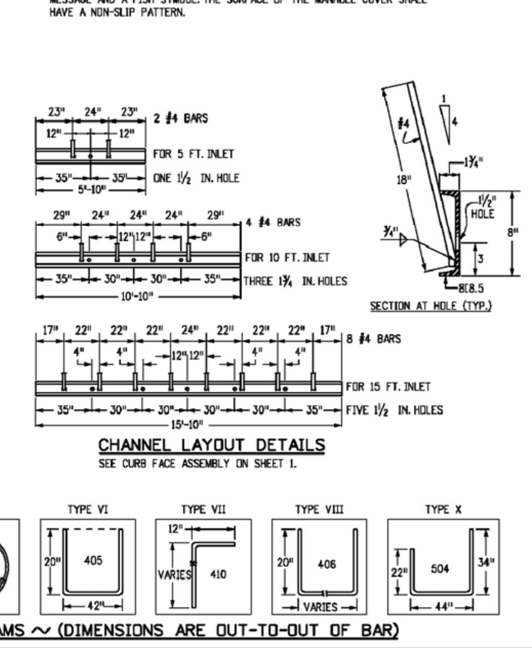
Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.
M-604-12
Sheet No. 1 of 2



GENERAL NOTES

1. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
2. CONCRETE WALLS SHALL BE FORMED ON BOTH SIDES AND SHALL BE 8 IN. THICK.
3. INLET STEPS SHALL BE IN CONFORMANCE WITH AASHTO M 199.
4. CURB FACE ASSEMBLY SHALL BE GALVANIZED AFTER WELDING.
5. EXPOSED CONCRETE CORNERS SHALL BE CHAMFERED ¾ IN. CURB AND GUTTER CORNERS SHALL BE FINISHED TO MATCH THE EXISTING CURB AND GUTTER BEYOND THE TRANSITION GUTTER.
6. REINFORCING BARS SHALL BE DEFORMED AND SHALL HAVE A 2 IN. MINIMUM CLEARANCE. ALL REINFORCING BARS SHALL BE EPOXY COATED.
7. DIMENSIONS AND WEIGHTS OF TYPICAL MANHOLE RING AND COVER ARE NOMINAL.
8. MATERIAL FOR MANHOLE RINGS AND COVERS SHALL BE GRAY OR DUCTILE CAST IRON IN ACCORDANCE WITH SUBSECTION 712.06.
9. SINCE PIPE ENTRIES INTO THE INLET ARE VARIABLE, THE DIMENSIONS SHOWN ARE TYPICAL. ACTUAL DIMENSIONS AND QUANTITIES FOR CONCRETE AND REINFORCEMENT SHALL BE AS REQUIRED IN THE WORK. QUANTITIES INCLUDE VOLUMES OCCUPIED BY PIPES.
10. STRUCTURAL STEEL SHALL BE GALVANIZED AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
11. ALL MANHOLE COVERS SHALL BE CAST WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE AND A FISH SYMBOL. THE SURFACE OF THE MANHOLE COVER SHALL HAVE A NON-SLIP PATTERN.



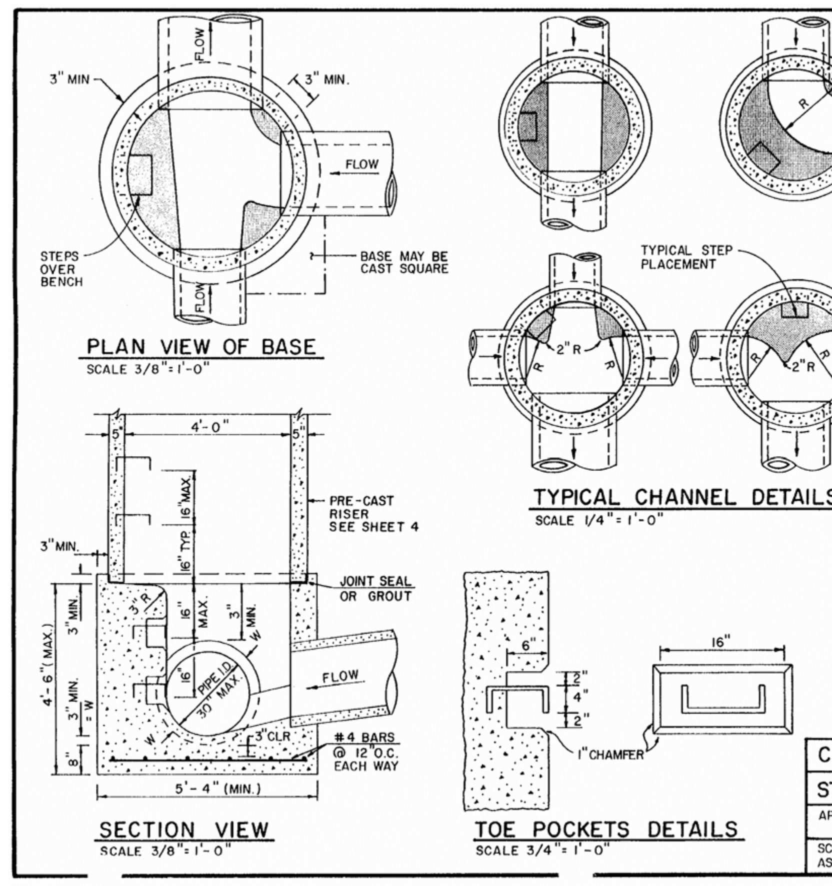
Computer File Information			Sheet Revisions	
Creation Date: 07/04/12	Initials: DD		Date:	Comments
Last Modification Date: 07/04/12	Initials: LTA	(R-X)		
Full Path: www.coloradodot.info/business/designsupport		(R-X)		
Drawing File Name: 6040102002.dgn		(R-X)		
CAD Ver.: MicroStation V8 Scale: Not to Scale Units: English		(R-X)		

Colorado Department of Transportation
4201 East Arkansas Avenue
Denver, Colorado 80222
Phone: (303) 757-9083
Fax: (303) 757-9820
Project Development Branch DD/LTA

CURB INLET TYPE R

Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.
M-604-12
Sheet No. 2 of 2

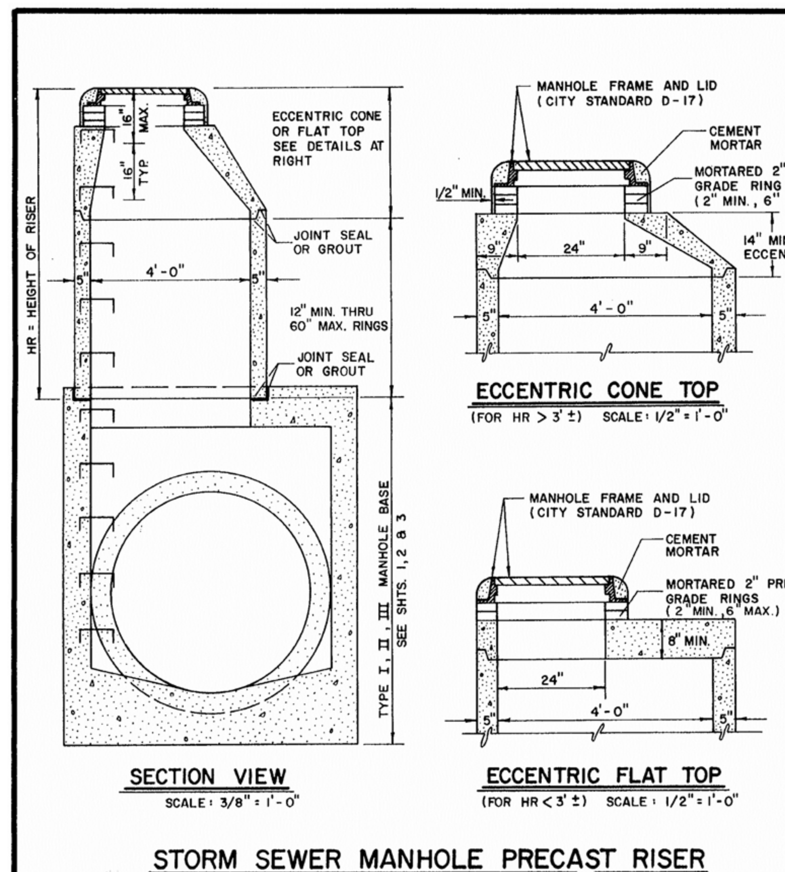


NOTES

1. Type II manholes shall be used only with approval of the City Engineer and only when the pipe sizes are 30" or less inside diameter.
2. View and Details are typical. Design Engineer shall determine manhole base configuration and dimensions for particular pipe sizes and alignment.
3. Either ladder or steps shall be installed when manhole depth exceeds 30". Steps in base shall be installed in "toe pockets" (see detail this sheet). Lowest step shall be a maximum of 16" above the floor.
4. Pipes shall be trimmed to final shape and set before manhole is poured.
5. Bench shall be sloped toward center of manhole base (4:1 max., 1/2" per ft. min.).
6. Floor of manhole shall be trowelled to a smooth, hard surface and shall slope towards the outlet (8:1 max., 1/2" per ft. min.). Floor shall be shaped and channelled; see details this sheet.

CITY OF COLORADO SPRINGS
STORM SEWER MANHOLE-TYPE II
APPROVED BY Gary R. Haynes CITY ENGINEER

SCALE:	DATE:	DRAWN:	SHEET: D-20 B
AS SHOWN	JAN. 89	P.L.B.	OF 4



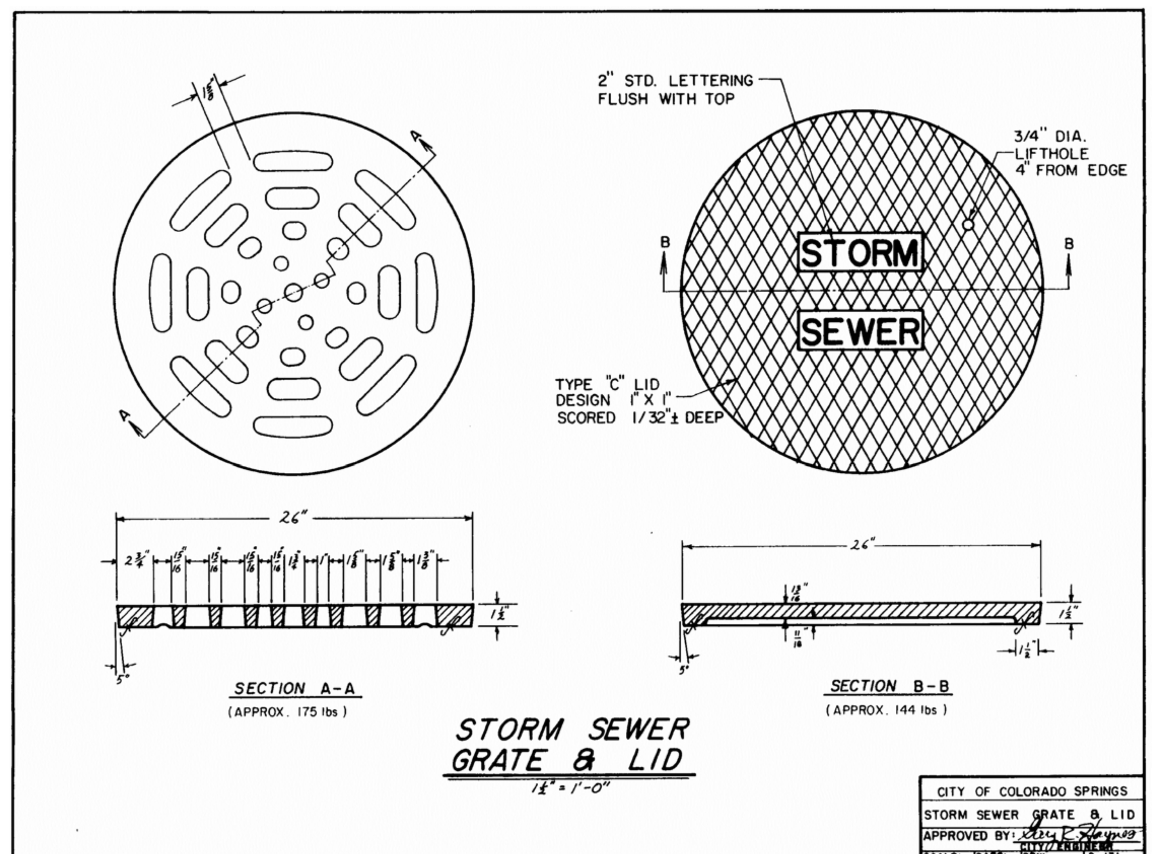
NOTES

1. All work shall be done in accordance with the standard and supplemental specifications applicable to the project.
2. Precast risers shall conform to ASTM C-478.
3. Steps shall be installed when manhole depth exceeds 30". Steps shall be cast iron or extruded aluminum, 1000 lb. capacity, 12" wide with non-skid grooves and drop front on safety noses, in accordance with approved OSHA requirements.

CITY OF COLORADO SPRINGS
STORM SEWER-COVER & RISER
APPROVED BY Gary R. Haynes CITY ENGINEER

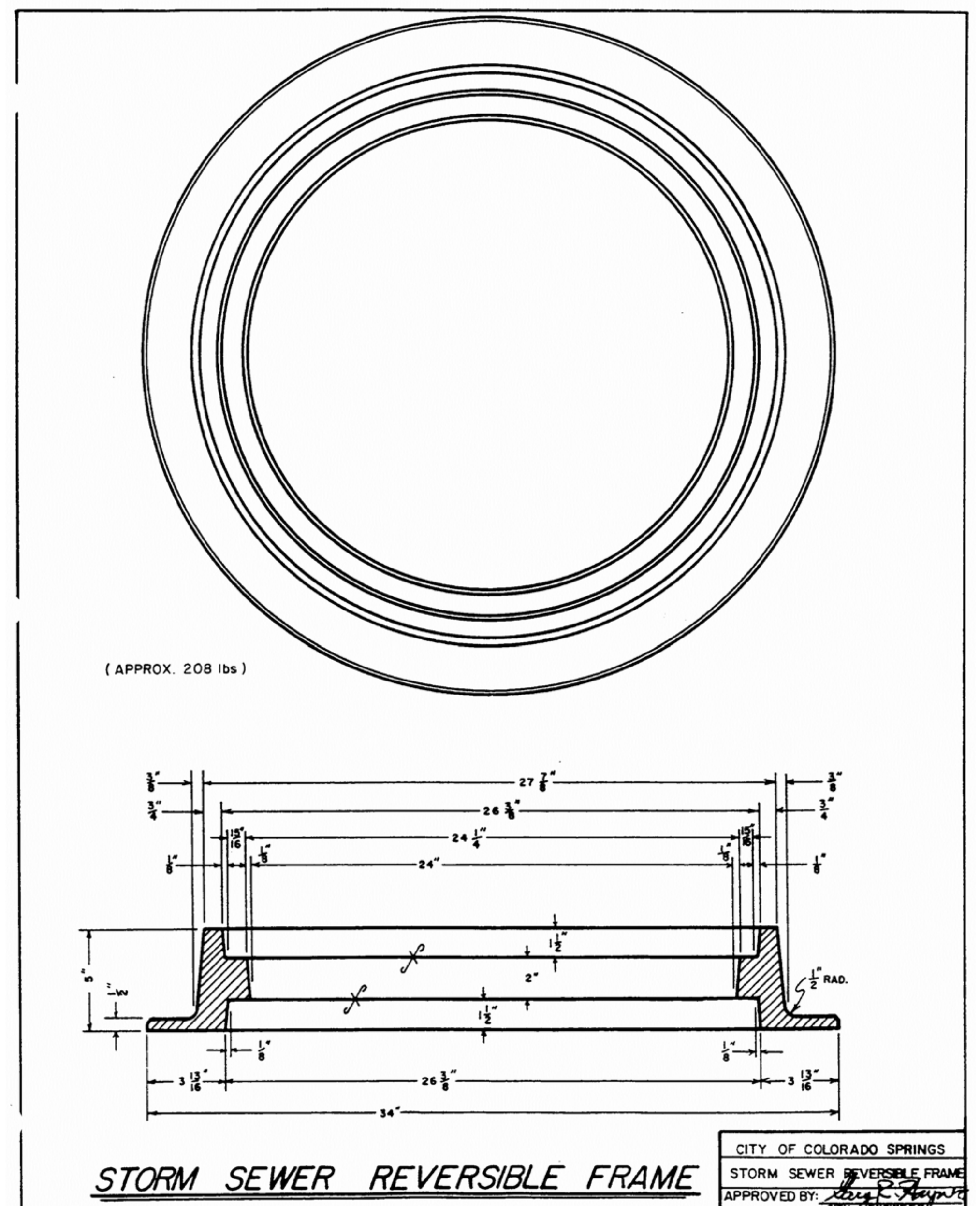
SCALE:	DATE:	DRAWN:	SHEET: D-20D
AS SHOWN	JAN. 89	P.L.B.	OF 4

STORM SEWER MANHOLE PRECAST RISER



STORM SEWER GRATE & LID

CITY OF COLORADO SPRINGS
STORM SEWER GRATE & LID

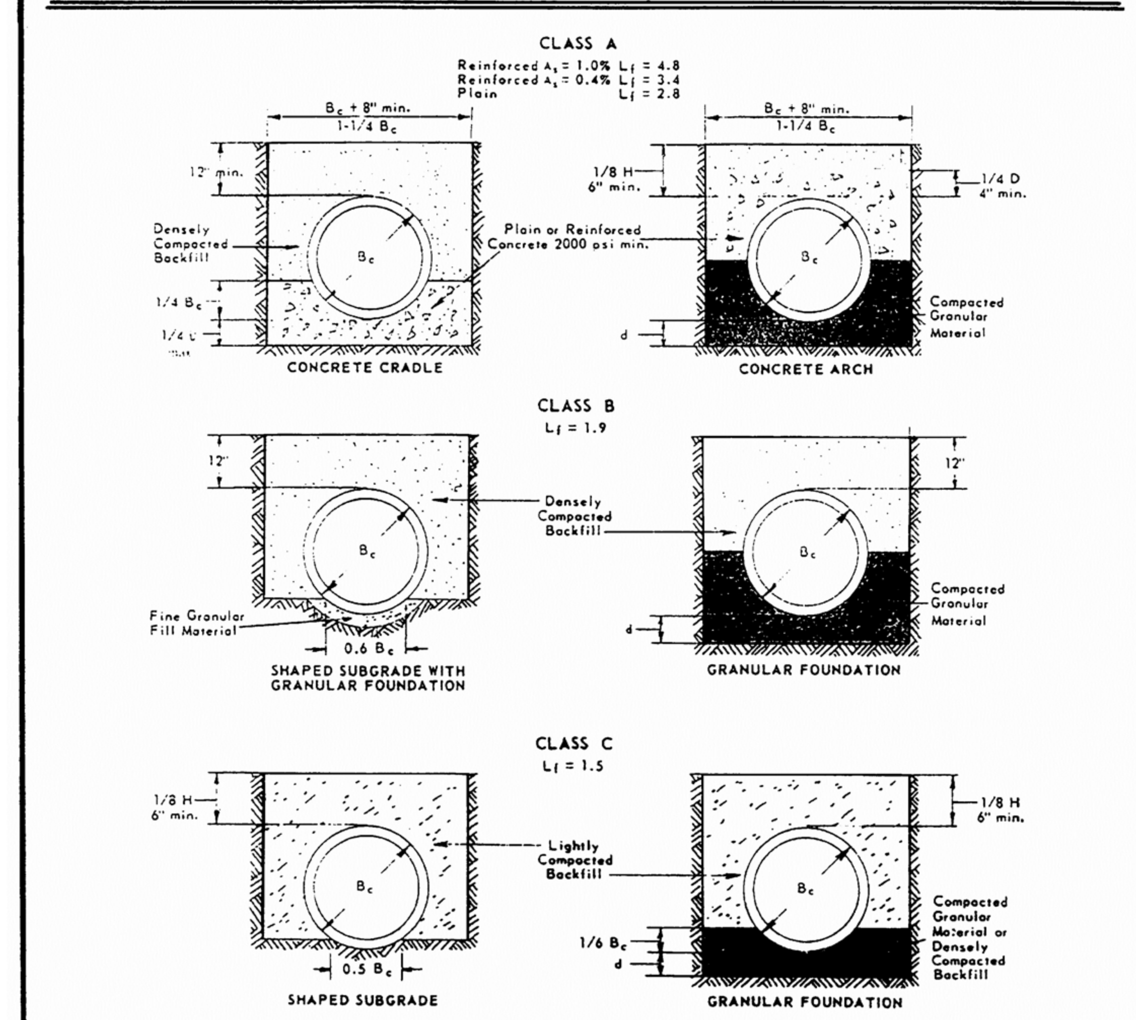


STORM SEWER REVERSIBLE FRAME

CITY OF COLORADO SPRINGS
STORM SEWER REVERSIBLE FRAME

SOURCE: AMERICAN CONCRETE PIPE ASSOCIATION

TRENCH BEDDING CLASSIFICATION - ROUND PRECAST CONCRETE PIPE



Depth of Bedding Material Below Pipe

D	d (min.)
27" & smaller	3"
30" to 60"	4"
66" & larger	6"

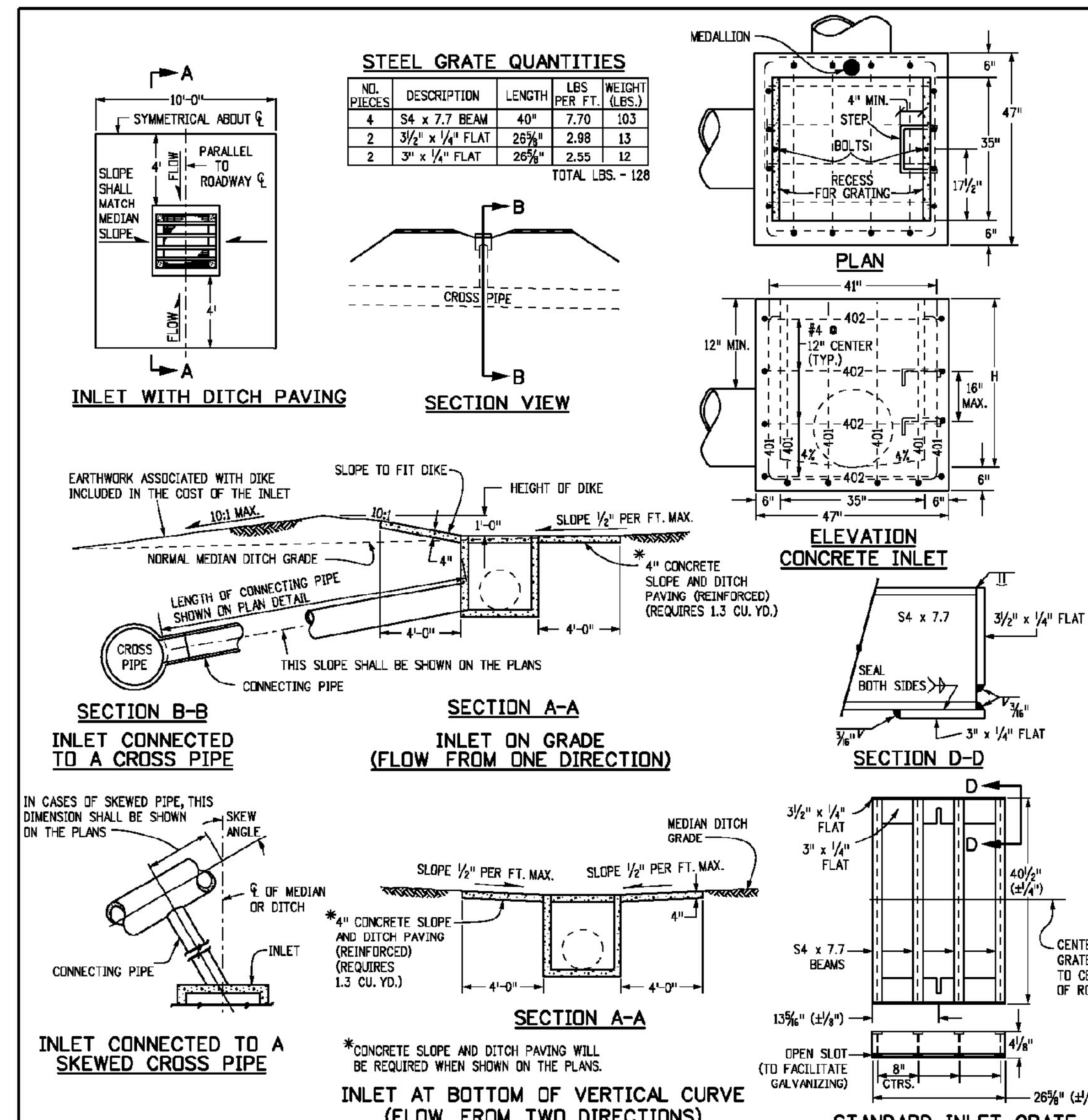
Legend

B_c = outside diameter
H = backfill cover above top of pipe
D = inside diameter
d = depth of bedding material below pipe
A_s = area of transverse steel in the cradle or arch expressed as a percentage of area of concrete at invert or crown.

Notes:
For Class B and C beddings, subgrades should be excavated or over excavated, if necessary, so a uniform foundation free of protruding rocks may be provided.
Special care may be necessary with Class A or other unyielding foundations to cushion pipe from shock when blasting can be anticipated in the area.

CITY OF COLORADO SPRINGS
TRENCH BEDDING CLASSIFICATION
APPROVED BY Gary R. Haynes CITY ENGINEER

SCALE:	DATE:	DRAWN:	SHEET
NO SCALE	JAN. 90	P.L.B.	D - 30



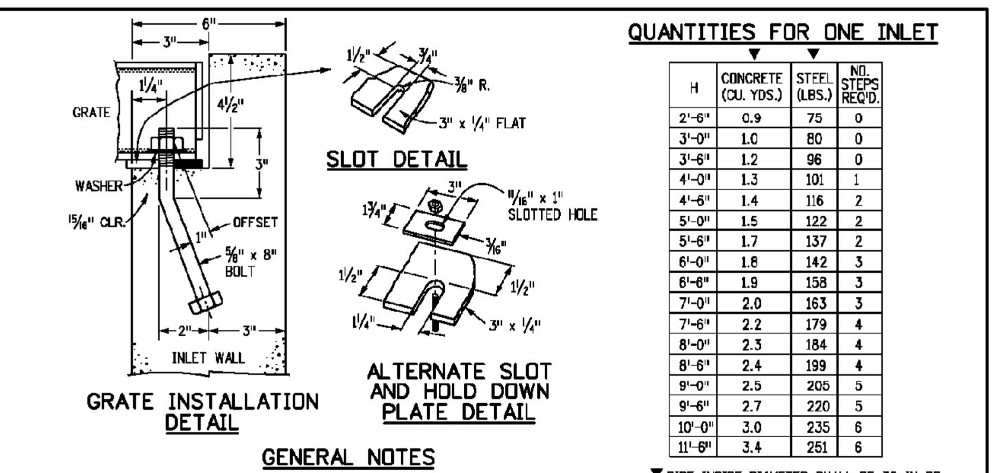
GENERAL NOTES

1. INLET TYPE C IS NOT HS-20 RATED AND SHALL NOT BE PLACED IN PAVED ROADWAYS. THIS INLET SHALL BE USED ONLY OUTSIDE PAVED ROADWAYS.
2. CONCRETE SHALL BE CLASS B. INLET MAY BE CAST-IN-PLACE OR PRECAST.
3. REINFORCING BARS SHALL BE EPOXY COATED AND DEFORMED #4, AND SHALL HAVE A MINIMUM 2 IN. CLEARANCE. CUT OR BEND AROUND PIPES AS REQUIRED.
4. CONCRETE SLOPE AND DITCH PAVING SHALL BE IN ACCORDANCE WITH SECTION 507. REINFORCEMENT FOR CONCRETE SLOPE PAVING SHALL BE 6 X 6 - W1.4 X W1.4 OR 6 X 6 - W2.1 X W2.1.
5. STRUCTURAL STEEL FOR GRATES AND GRATE INSTALLATION HARDWARE SHALL BE GALVANIZED, AND SHALL BE IN ACCORDANCE WITH SUBSECTION 712.06.
6. THE STANDARD INLET GRATES SHALL BE USED ON ALL TYPE C INLETS UNLESS CLOSE MESH GRATES ARE SPECIFIED ON THE PLANS.
7. CLOSE MESH GRATES ARE RECOMMENDED WHERE FOOT TRAFFIC OR BICYCLE ROUTES ARE IN CLOSE PROXIMITY TO GRATE. THIS GRATE IS NOT ADA COMPLIANT OR BICYCLE FRIENDLY AND SHALL NOT BE PLACED DIRECTLY IN SIDEWALKS, CROSSWALKS OR BIKE PATHS.
8. STEPS SHALL BE PROVIDED WHEN INLET DIMENSION "H" IS EQUAL TO OR GREATER THAN 3 FT. - 6 IN., AND SHALL CONFORM TO AASHTO M 199.
9. SEE STANDARD PLAN M-604-11, FOR REINFORCEMENT AROUND THE PIPE OPENING.
10. ALL INLETS SHALL HAVE A 4 IN. DIA. METAL MEDALLION WITH A "NO DUMPING DRAINS TO STREAM" MESSAGE ON IT. THE MEDALLION SHALL HAVE A FISH SYMBOL WITH A BLUE BACKGROUND. IT SHALL BE FIRMLY ATTACHED TO THE TOP OF THE INLET WITH A PERMANENT FASTENER.

▼ PIPE INSIDE DIAMETER SHALL BE 30 IN. OR LESS. CONCRETE AND STEEL QUANTITIES ARE FOR ONE ENTIRE INLET BEFORE DEDUCTION FOR VOLUME OCCUPIED BY PIPE. WEIGHT OF STEEL INCLUDES A RING FOR THE MAXIMUM PIPE DIAMETER.

BAR LIST FOR H = 2 FT.-6 IN. AND BENDING DIAGRAM

MARK	NO. REQ'D.	HEIGHT	LENGTH
401	2	2'-3"	7'-11"
401	6	2'-7"	8'-7"
402	3	"U"	15'-0"



"U" INCREASE DIMENSION 6 IN. FOR EACH 6 IN. INCREASE OF "H" ABOVE 2 FT.-6 IN.

ADD ONE BAR FOR EACH FT. INCREASE OF "H" ABOVE 2 FT. - 6 IN.

402 BARS SHALL BE EQUALLY SPACED FROM EACH OTHER.

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Denver, Colorado 80222
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Fax: (303) 757-9820
Project Development Branch DD/LTA

INLET, TYPE C

Issued By: Project Development Branch July 4, 2012

STANDARD PLAN NO.
M-604-10
Sheet No. 1 of 1

REV.	DESCRIPTION	DATE

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1023 W. COLORADO COLORADO SPRINGS, CO 80904 (719) 685-1670

ELDORADO SPRINGS

STORM SEWER PLANS
DETAIL SHEET

DESIGNED BY: CDK	DRAWN BY: CDK
SCALE: AS SHOWN	DATE: 06/27/19
JOB NUMBER	SHEET
91807	ST9 OF 9